

aagttattgt cgtttgaatt tgctcagagc ttctattgtc aattacgagc gtctcgatat 120

attacgggac tcaatcggac atccgagtaa aaagttattg tegtctgaat ttgtccaaag 180

cttctgtttt caattaacgag cgtcctgata tattacgtga ctcaatcgga catccgagtc 240

aaatttattg tttttttaa tttttttaa tttttttaa tttttttaa tttttttaa

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<210> 19012

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19012

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ctccagtgty gtaatagctaa caataaagcc atgagctcct tttcatacgc agattttgat 120

aaatcgccct ctgatcaagc tatgctaact aaagctatag gctgcctctg ctgcatcaaa 180

acagcaccaa ttctctctcc cgcgcctca cattccactt caaacagaat agagaaatca 240

gytaacacta gtaactggagc tatagtcatg atctgcttca gatgattgan agcctccaga 300

gcattcttcc cccaaataaa gttattcttc ttatgcattt cagtcacagg gttagcaatt 360

gtaccataat cctttgataa tttctgtata accc 394

<210> 19013

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19013

ccaaaagcac ctttcttcaa acattcgytc gtaggaacttg ctataacgct aacattcttg 60

ataaaagcygc gattacatga tgcaagacca aggaaagatc tcacgctacg aactggtaga 120

aggctcgggc aagtcttgat agcatgcact ttggtttgat caacggatad tccatcttta 180

gacacacat atccaagnac accacacttt caaccaagaa agcacacint tccctcttgc 240

catagagtnt tggggtcttt agggctctca atatttggtt canatgagtg aaatgcccc 300

ctatagatnt gctatacacc aat 323

<400> 19015

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<225>      unsure at all n locations
<400>      19016
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(1) (2) (3) (4)

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gaaataaaga ctatttaaaa cactttacag ggacaaaaat g 401

<323> unsure at all n locations
<400> 19017

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ggtacaatt caagtaattg gctgcattnt gcttccacga ctccgacata ccaatngatc 360
cgaatctgct ttttgcanna attattgaga cctgacacca attcaaaggt cctcaagatg 420
gctttgatca cctgatggt ctncattgat 450

<210> 19018
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19018

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ccttgtgata aaggtagtgt tgccatggtt tccacagcca tattaatgca tacaactcct 120
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180
gatggccttc ttgcataaac acagcctcag tcccacacatt cgaagcaca cactcaatnt 240
caaaagattg ttgacagtca gacaacgcaa gtagggaggc attagatagc tttttcttaa 300
gaacattgaa agcatcttct tgattctctc cccattcgaa accaacatta tgetagagca 360
cgtcattgac aggtctctcc aattctctaa aatccttccac atatcactca 411

agcttttttg ctctatttat aggagctgac aagaatatct tcagacttat caacacatgc 60
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 aagatgtcca gattgcaact attggtctaca aaattcgaaa atctgaagat gaaggaggaa 180
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 agtgggttca agtgggttca agtgggttca agtgggttca agtgggttca agtgggttca
 gactcattg ctctcttcca acattgaact aggaactctg atagggctga aag 423

<210> 19022
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19022

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 tatttcctga ttgctcaagt gcggacctc aagtgcacac ctccattctc ccccttcttt 180
 ggagcccat gaattgttatt tcttagcgtt gttcatgtgt cctccacctt cgaatttggt 240
 gctatatttc atgattgctt aagtggggac cctcaaggca atactccatt ctcacacttt 300
 cttggagccc catgaatgtc attgctt 327

<210> 19023
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19023

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 ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaagat ccacacatta 120
 atatttaagt ttatagtta ttccaaacca ctgggggaat ttagattcat catanataga 180
 ttagtagget aattttgcat atctgacctt gcagagtata taacagaatt tgggcctgat 240
 taactataca tpanaaa'gg gtaggaagaa actaaagata tggaaaacca catcacctga 300

taaaggtatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgacatt 360
 caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacotgt attaacatcc 420
 cccatg 486

<210>
 <211>
 <212>
 <213> Glycine max

<220> locate at all n locations
 <400> 19024

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 aacaagggcc ccccaacaaa ggtttttggtg tatcttccaa tcattccaag gtttaagcgt 180
 ccttttgcta acgaggaaga cgcanaaac cttacatggc atgcacaatgg aaggatttct 240
 gatggaatgg tccgtcctcc ggctgattgc tcccagtgga agaagattga tggtttgtat 300
 cgggatttcc ggaatgagcc aagaaatctt agacttggac tagccagtga tgggaattgaa 360
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 19025
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 19025

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 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatattarga tcttttactt 180
 ctatttcttt ttttccaat tataaaaaatt gaaggacaca caatttaaaa aattcaactt 240
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gtaaaaaagt 300
 aatttagtta aatgcattca aaatattttt tatattatta ttaaatetta aattgagata 360
 ttaattaaaa ctgtgactt cttataatta ttacttta 398

<210> 19026
 <211> 297

<312> DNA
 <313> Glycine max

<400> 19026

atttatccag tattaacaac agctttttaat gaaaggcagg aaatatgaatg cccccccgaaa 60

gagctgctgag cctgctgctgag cctgctgctgag cctgctgctgag cctgctgctgag

gagctgctgag cctgctgctgag cctgctgctgag cctgctgctgag cctgctgctgag

atttatccag tattaacaac agctttttaat gaaaggcagg aaatatgaatg cccccccgaaa 120

gagctgctgag cctgctgctgag cctgctgctgag cctgctgctgag cctgctgctgag 180

<312> 19027

<313> 414

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 19027

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atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120

ttctactttg tatgttcgat tgactctggg aatatatcga aacgctcgaa attgaagacc 180

gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcctg 240

actatateg agagctcgg acttgaatgc cgaagctctg cgcanattca aacgacaata 300

acttttttcc tgggatgtct gattgagtc cataatatat cgagacgctc ggaattgaat 360

gccttagctc tgagcaaatt caaatgacaa taaatnttta ctgggatgtc taag 414

<310> 19028

<311> 430

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 19028

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tgtctgacat ccgagtaaaa aagttatgtt cgtttgaata tgcctcagggc ttccgtaatt 120

aatttcgagc gtctcaatat attacgggac tcagtcagac atccgaataa aaadtatttt 180

tggthggaat ttgctcaaaag ctgtcgcatt caagtcagag cgtctcgata tattacggga 240

ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgtctata gctaacgcat 300

tcaagtcoga gggctctgat atattatggg actcaatcag tcctccgagt aaaaaagcca 360

ttctcgtctg aatttctca tagcttcggc attcaagtcg gggctctctg atatatcagc 420

ataatattat

<210> 19029
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19029

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caattcagct acttcaatta cagctcttcc ttgggaaacc ctgacctctg tggcccttat 120

ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180

tctctctctt ttaagctgct acttgttggt gggttgctac tatgttccat tgcctttgct 240

tgggctgcaa tattcaaggc ccggtcactg aagaaggcca gtggggctcg tgcattggaag 300

ttagctgcgt tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360

ataatattat 370

<210> 19030
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 19030

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cctgctctaa atcaccatta agaaagattg gtttcacatc catttgggtc aactcaaggc 120

caaaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180

atgtctgtgt aattgattca ttctttttta gtaaatccct tagcaatgag tcttgcctta 240

tatctttcaa tgttgcctaa tgaatccctt ttgggtcttaa agacctatct actgccaatg 300

gcctttggcc cattangcaa ctctacaagg ttccaaactc cgttactctg caggaaatc 360

atctcatcct tcctagcacc ataccatana tttagactctt tacaactcat ggttgcctca 420

naagtttcgg gatcattttc aactgcaata tta

453

<210> 19031

<211> 372

<212> DNA

<213> Glycine max

atgcttctta gaaatcttta taaaaaaaaa taaaaaaaaa atctttatga attatcttta 60
aaaagaaaaa taaatctaaa atatcttaaa gtgtgggggt ggctaataaa aggtaatatc 120
cttattaata agaaatgaaa aattgaaaaa aatggtaatt ggatttcggg ggatattttt 180
tacataatac tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaatg 240
ttactattat gcaatctaga gatgttactt ccttgaaaaa tcttttttct taacaaataa 300
atcctgtaaa ctttatatgg ttgaaacaa actcccaaag cagtacacaa aaagttgatt 360
aagttattct tt 372

<210> 19032

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19032

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tcattggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgtttacat 120
gagaagaaca tgatgagaga tcttccaagc ataaaggaga acaatgaagt gtgtgaagga 180
tgtctccttg gtaagcaaca ccgatttctt tacgcaacag gccggagcatg gagagcgaaa 240
gactcattgg agctgataca tacggacgtt tgtggaccaa tgaggagccc atcacatgag 300
aacaacaagt atttcatact cticattgat gaattctcta gaatgacatg ggtatatnt 360
ctaataaaaa aatcaaaagt ctttgagta ttcanaaagt t 401

<210> 19033

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19033

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ttgtjccana atcccaactc accataaacc ttgaccgggg atgagaattt ccacgtctgc 60
cttcgaaga aacacaaaaa agaaaaaaa acctcccat cagaaatccc aaaaaaaa 120
cttcgaaga aacacaaaaa agaaaaaaa acctcccat cagaaatccc aaaaaaaa 180

ttgtjccana atcccaactc accataaacc ttgaccgggg atgagaattt ccacgtctgc 240
gcaaaatttc taccacaaac accattcccg aaaatgtcct attgatccat gatcatgcac 300
gtaacetttg atttgatagg aaatgatctt canaatcaag tcatgacata tctatgggtt 420
gtaattagga taaaacactt gcttatgtga 480
  
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<210> 19034
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19034

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cggaagctctg attcagccgc ataatatatc gagaagctgg aaattgaaca acggaagctc 120
tcgagaaaact aaaatgggtc taacttttca caggaagctc cgattcaggt gcataatata 180
tcgagacgct caaaattgaa catcggaagc tctcgagaaa ttcaaattgg cataacttgt 240
cacacgaatg tccgattcag gcacataata tatctagatg ctcgaaattg aacatcaaaa 300
gctctcgaga aactcanatg ctcataactt atcacacgga tgtccgattc aggcacataa 360
tatatcgaga cgtcgaat tgaacaacgt atgggtgtcg gaaattc 407
  
```

<210> 19035
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19035

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gatccaggtg cataatatat cgagaccctc gaaattgcac aacggaagcc ctaagaaag 120
  
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acaaatgggtg ataatTTTTT aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240
 atccgattca cgggcataat ataccgagac gctcgaaatn gcacaaacaa agctctcaag 300
 TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT
 TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT TTTT
 gaagtcggat caggcgata ata 440

<210> 19036
 <211> 378
 <212> DNA
 <213> Glycine max

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 gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120
 tgatggtggt cctagacaaa accgaattga tggattataa ctcaacattc ctccatttaa 180
 aggaagaat gatccggagg cctacttga gtgggagatg aaaatagagc atgtttttctc 240
 atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt ttcccgacta 300
 tgcctttgtg tggtygaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360
 tgatacatgg acggagat 378

<210> 19037
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19037

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 gaccatttga atatcttgag atcttccgat gtttaatttc gagcgtatcg atatattata 180
 agcctgaatt ggacatccgg gtyaaaagtt atgaccattt gaatttgcca gagtttccga 240
 tngttaattt cgagcgtatc gatattatat acgcctgaat cggacattcg tggaaaaagg 300

tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc togacatatt 360
atgggcccga atcggacatt cgtgtaaaag ctatgaccat ttga 404

<210> 19039

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<410> 19035

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ggggtgttc ttgactctgt catcttgaag ggttacaatt gttgtttcaa gcctagccga 120
tttgaaaggg aatttgctat atacaatggc ttctagttta accacattga ggttgttgct 180
ctttctcttg caactctctc tanagcttta tctccaagca atagaatgat tgcacttcgg 240
gatttagcaa tcatctctga tttctctctt gagcttagag attcaaacat ctttctctct 300
cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360
aaacccaagt cttttctcct tanaacttct caatatcgta c 401

<210> 19039

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19039

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gttgtgtac agattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg 180
atcggtatga ccaaggagga ttggataag aatctgggga cgatagcaaa atttgggaact 240
tctggtatgt atgttgcgga cattatcgct gaagtaattt ttgtttgtga tgtgactggg 300
aatatgttaa ttggagatgt gtgttatttc aacatttgtt gagaagatgc caacaagtgg 360
agatctcaat ctgathgcgc agtttggagt cagcttctac tctgttatct tgtggccgac 420
tat 483

<210> 19040

ataaaaacatt tggcgagcat agtagctacc tgttcttcga tctccttctt ctgaaagtaa 240
 ggatatctat atggttctaac cgttcacggg gttgagttag gcaatagatt gatgggtatga 300
 tctgtggatc gtgatgggtg canggtcgtg ggaggttga agaggggaagc gtatntgggtg 360
 ctatgtgtt tgg

<210> seq
 <211> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19043

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 aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaataaa gctcaaataa 180
 attatgccac aactgagaaa aaattgcttg caatagtata tgcttttgaa aaatttaaat 240
 cttatttgat aggatctaaa attgtggttg ttactaatca tgctactata agatatttgt 300
 tagttaaago tgattctaaa cctgaacta tccaatggat tetattgttg caagagtttg 360
 aattaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420
 tgaccattga tgaggtgacc acacaataa 449

<210> 19044
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19044

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 ttggcactaa gaaggcccta tggttgtctc cattgttttc aaaagaggat ttaaaccaaca 180
 taccctgaact aaggggcatt gatttcccta caagttcggg tgttgatgta tgaaagctgg 240
 gtacgttata ggtttgaaca ttttttctat taaatgatgt catttatgtc taattctatga 300
 cagttcagcg tanggcatga aagtaatact ctacttgatt gctgatgttt taaattatag 360

aatngtccag tagatgtata tatgtaatgt togattcaga atgtttgatt attccttataa 420
totaagaacc tgtgatct 438

<210> 19045

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cgatatatta tgtcccaaaa tcgacatttc ggtgaaaag gtatgaccat tcaaatctct 180
tgagagcttc cattgttcaa ttccagcgtc ctagatgagt tatgtccgag aatcggacat 240
cctatgaaaa ggtatgacca ttcaatttc ccagagctt tctttggtca attccagcgt 300
ctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc aattgaatat 360
ctogaatgct ttcgctgtc aattccagc gcctctatat tttatg 406

<210> 19046

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19046

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gcttccagc ttctgtcttc cagtgccttg aggaaggcca ccattctctc tttccaatat 180
tcatagtcgc ttcctcgag aattgggtgt ctgtcactg gtcagcttcc tttctccatg 240
ttcctcagaa tttatctccc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300
aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtccagaca tcacgcttca 360
gaacatgcag atttatatgt tccgtatgaa cagattatac aagtaaataa cacaagagaa 420
ttgtgtaccc aggtcggctc tacctcaact acatc 455

<210> 19047

<211> 361

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19047

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 tgtatttcgtt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
 aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
 tattgctatg ctttttgctt aagagttact ctcatctcaa agagacttta ctatttggaa 240
 gagaactctgt ttctcttgat gaagtgcatt ctgctctgaa tttaaaggaa ttgaatgaaa 300
 gaaaggaaaa gaagtctctt ataagtgggt aagggtctgac aacaagaggc angaccttca 360
 agaaagatag taaatctgat aagaaga 361

<210> 19048
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19048

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 tgtatttcgtt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
 aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
 tattgctatg ctttttgctt aagagttact ctcatctcaa agagacttta ctatttggaa 240
 gagaactctgt ttctcttgat gaagtgcatt ctgctctgaa tttaaaggaa ttgaatgaaa 300
 gaaaggaaaa gaagtctctt ataagtgggt aagggtctgac aacaagaggc angaccttca 360
 agaaagatag taaatctgat aagaaga 387

<210> 19049
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19049

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[illegible]

tgcaattgac ataaaggagac gtcccanaat gactggtacc tcatggtctt cctccagatc	60
catgaccaca aaatcagctg gaaagacctt cactttttatc aaaacattct caattacccc	120
ggaagggtctt gtgatggatc ggtcaacaag ttgtaaagtc attctcgtgg gcatgatttc	180
caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaatc	240
aatgagagtc tttctgatgt gccatcattt tcttctattt cttaaaacct ttntgcacca	300
ttttaattac tgattagctt taattgtcaa attaattaag cagttttatt atttgggcac	360
attgagctaa ttgatgttt ntaatctaat ttcatgaatt aatgaaacat tgggcttaat	420
ctgga	425

ntgatgggtgt cgagaagaaa tccatgtct gtcatcatct tataagggga gaatgtgaat 60
 gtatgtatac atgattttga tgaatgcaaa gaagaattta acaaugctgc ttcaaatgat 120
 aagcattttgc ttcaagaata attcaagatt gcttcaacaa acaaaagcctt ggttcaagat 180

tcaactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggcctctggg 240
 aatcgattac caggaagtgt aatcgattac cagaagacag gggtgagaaa tagcagttga 300
 aaaagggtttt gaatttgaat tttaacatgt aatcgattac catatgtctg taatcgatca 360
 tcaatgtgt aggttggtt atttcaattt caaatgca

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19052

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 cggagcccc atgaattgat tgcgttccat gcctcctcaa ccatccagtc cggagcctta 180
 cgaatagaat gccaaagctct gtccatgaat cctctatcat ccaatcttat tccaagcccc 240
 atgaattgat taccattcat gcctcctcaa ccatngagtc cggagccccc cgaattgatt 300
 gcttagtggt gtccgtgcac cctccaccat cttattcaga gccgcattgaa tngattgtcg 360
 tccatgca 368

<210> 19053
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19053

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 ttaatgttta aatttagagt tgatctcttt tctcaatttt tcaattaaaa ttacatcaaa 180
 gaagtcatat atttagagat aatacattgt ttattcttga taaggatgtt caaaactaat 240
 taacaaagtg aggaactaaa attgagtcct gatacaaaatt tatccttgta cagaagtctt 300
 tagtateatc tcaatgatt ctcaaaactat taattatctc atcatttatg tcttgataaa 360
 tttagatata agtcattgaa atatatctct ttgtcaaaag ttccataat acttatctca 420

acaatccatc aatatatt

437

<210> 19054
<211> 414
<212> DNA
<213> Glycine max

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aaagcatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180
tatgaaggag aacatgtgtt ttgaagggt tctccgttaa caggagtccg aagagctctt 240
aatgtctagga agttgacacc caagtatcta ggtccatata aaattttgaa gaagattggg 300
cttgnagctt atcatatcgc cttacctcgc agtttatcga atctgcaccc tctgtttcat 360
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<210> 19055
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19055

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ttttgcaggt ggagctgaga ttgaggagga ggaactaaca gatttgagga caaatcatct 180
tcaaggggaa ggggatgatg caatccctcc taggaaggga ccagtcacta taacctgag 240
caagaggctc caagaagatt gggctagagc tctgaagaa agccctatgg ttctcatgaa 300
cttcagggtg gattttctgag cccatgggac aaggetgagt ccaattatct ttgtacatat 360
tagactanga tctcattata ttgggtcctt gtatttangg ctccatatto tangtagggt 420
acccataaaa tatac 435

<210> 19056
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 19056

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 ggaatcggac ctgagtgtga aaagttatga ccatttgaat ttctcgattg tctttcgttg 60
 ggcgcggaat ctgaccttcg tctgaaaagt tatgaccatt tgaattctct gagaattctc 120
 tatgtttaa ttgcagcgtc tcaatatatt gtaagccatga atcggagctc agtgtgaaaa 180
 gttatgacca ttgtattttc tcgacagctt ccttggttca attccgagcg tctcgacata 240
 ttatutgccc gaattctgac ttctgttgaa aagttatgac catatgaatt tctcgagagc 300

<210> 19057
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19057

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 aaagctcacc accataggat gccatggata agagcttgaa ggtagaagaa gatgaatgaa 180
 gggacaggaa aagaagagca cgaaatttag tgcctctaaa gaagtctgaa ctttgaagtt 240
 taattctcaa aatgatcaaa gttcaaaaaa atgcacacac atgacctcta tttatagcct 300
 aagtgtcaca caaaattaga gggaaatttg aattctctatt caaatttcac ttaaatntgt 360
 ggagccaaat ttggagcca aaatttcact aattatgatt agtgaatntt agttatggtt 420
 cagccacta atccaagatc aagtc 445

<210> 19058
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19058

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 caagttaaag aaaaatttga gtaaaggatt ttcttcacat aaatattctc aaagtattga 180
 ttctttattg catttgacaa acttctctag gccagacatt gcataatgag ttggttagatt 240
 ggttttattt tttttttttt tttttttttt tttttttttt tttttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt
 aggtttaat gatgcattt gttttttta ttctttttaa acataatcaa aaatatttt 4
 ttattttact tttagctagt 438

<210> 19059
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19059

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 attcaacctt gttcatgcta tctatcaatt aataattttac tttggcacat cttagagcta 180
 actccagtct attttctctt tgtcacaaga atgtgatgtc attgtcagat caattagaca 240
 tgttcaagga atacataaag aagataaatg aagcggtttg aagaaacaga acgacaatga 300
 tagtatctaa gagcatatac atagtatgtg taggaagtga tgacattgcc aatacttact 360
 atcaatcacc ttttaggagt gctgagtatg atattccttc atacacggac ttcattggctt 420
 cagaagcttc anaattctt 439

<210> 19060
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19060

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 gcttatattg gttaaaagg accattcaaa gcataaaaac aacatataaa ttatctgctt 120
 ttgcaagaac tacgtagata tgattttctc atcacaattt aggatacgtt aaagcaaaaac 180

ccccactttt gtcgaccacc ccaagagatc gttaattatc caacgcctta acgcttctct 240
 cttttcaaaa atcaagagat cattaatggt ccaacgcctt aatgtttctc tcttttcaaa 300
 atcaagaaan tgttaatggt ccaaacgcct taacgtttct ctcttttcca aaaatcaaaa 360
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<210> 14161
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19061

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 agcttcaaca ggggtcatgt ctctaggac tccaccacta gcagcatctc tctactctct 180
 ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctggtgg 240
 tgagggcaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300
 ctgagttgcc taatgcctga aatatctttt ttgatggctg tggctctgga ggcagagaan 360
 atttttctc agaatactct ctgaggtcca tccagctcg cgatggacct tggagcaagg 420
 taatatagtc agt 433

<210> 19062
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19062

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 ggaagagttt gatacaattt acacaagttt tatcacata agttagttgt attcatcgac 180
 taacaatggt ccaaaattta attggattgg gcttctccca attcaattaa attctctctc 240
 caacacacac acatcaata gtcgacttaa tgcattctaa attacaaaac taccctaat 300

acaaaaacta gtctaggtgc cctanaatac aagggcctaaa aaatcctaca ttactagggc 360
 accctcccta cactacggag cctaaatac aaggaccaa aataatgaaa ccttaatcta 420
 atatgtacaa agataagg 438

<213> Glycine max

<223> unsure at all n locations

<400> 19063

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 aatgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttaccagc 180
 taagcatatt ttgaatggc ttaaggccta aaactaagat gattctggag gcagtcgcta 240
 gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
 caactgatca ccaatctcag cataacagac aatcgataca gaaaagagga gtgttggate 360
 tcattctcaa gggtttttca aaggaagtgt aaaaacattt tgttggtgga cctataaac 420
 aagagacgct gagagaagct c 441

<210> 19064

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19064

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 tttgcagggtg gagttgatat tgaggaggag gaactaacag atttgaggtc aaatcctctt 180
 caaggggaag gggatgatgc aatcctccc atgaagggac cagtcactag agccatgagc 240
 aagagactcc aagaggattg ggcctagagc gtggaagaag gccttagggc tctcatgaac 300
 ctcaaggtag atttctgagc ccatagacca aggttgggtc caattgtctt tctacatatt 360
 aactatgat ctcatatat ttcatcttg tttttanggc tccataatgt andtaggta 420

ccctagaaat at

432

<210> 19065
<211> 439
<212> DNA
<213> Glycine max

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caagtgoggtt tgatggtata gcaattgaca tgcagagaaa atccgagttct totgagtgtt 180
aaagagagaa gcttcgtgaa tatgagcacc aatgtctgtg gaagatttca attgatgatg 240
ttcaagctca ttgtgaaaag gtggatgcac atttgggaagt tcagaaggag acggatgctg 300
ctcccttact tgactgtaaa gagaaggcgc agggatctgt tgattggaaa attgatgaga 360
gacccattga ggaagtaatg atgctgagtg atcagaggaa ggtgacagtt ctgtatgaac 420
ctctgtctgg ttgtctatc 439

<310> 19066
<311> 345
<312> DNA
<313> Glycine max

<400> 19066
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ttaactggat gtcagattca ggcacatcac atatcgagac gctcggaatt gaacaacgga 180
agctatgaag aaattcaaat ggtcataact tttaactoga atgtctgatt gatgtgcac 240
acatatcgcg acgctcgaaa ttgaacaacg gaagcaatcg agaaattcaa atggtcatac 300
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<210> 19067
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19067

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ttaattatga aattatttta ctgaagaatgg attaagttta ctataataga taaattttat 180
ctttatattt ttttaattat ctgaatttta ttttagatg ttttattatg attagtttt 240
aattatatac gtaagggtta ggggtatgtg actaattaac gtgcaatgtt agttcaatac 300
ttatgggtta t 360

<210> 19068
<211> 443
<212> DNA
<213> Glycine max

<400> 19068
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agtggttcga taccocgaat ggggtggccaa tatgtgtccg gtccctaaga agatgggaag 120
gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcccttt 180
accacacatt gatgtccttg tggataaac acocaaatttc actttgtttt ccttcattga 240
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ogtcaccttg tggggaatgt tctattataa ggtgatgttc tttaggctca agaattgctg 360
ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420
agtctacatg gatgacatga ttt 443

<210> 19069
<211> 381
<212> DNA
<213> Glycine max

<400> 19069
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gccttatggc acttgatctt gccttcaaca atttcaactg accaatccct ccaagccttg 180

gaaacttgag ttctctecta tggctaacc tttcagataa ttctgtatct gaagaaatcc 240
 caccagagct gggaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaactct 300
 ttttttatt tttttctgag cttaagagaa tttttttaa cgttaagctt acattttaa 360
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<210> 19071
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19070

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 ctcaagccat ttcttcaaga tgttgacaat caactcgcgc caattccact cccaccaacg 180
 accttgata accaactgt gatctcatcg ttagctatct ttagctcggc tcaggaaggt 240
 ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctca cgttagacgac 300
 acctcgtggg aggaactggc cacattgaag ggcacctatc accttaagga caaggtgatt 360
 ntatgatgagg ttgngaata tagaccaagc gggtcacaag cagtccatac cgagaggccc 420
 acaagaaaga tcacaacacc tga 444

<210> 19071
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19071

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<210> 19072

<211> 19072

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 aytctggaaa actcagaact agagccttgt tgattgcttc ctttagttgc tcgaaggcat 180
 taatggcttt tggagtccaa gttaaattgt cctttgccaa aagttgtgtt aatgatgtag 240
 caatagctgc atacccttta atgaatcggc atgagccatc acptttctta accaggagaa 300
 tcgaagatga gaaagggcct gtgcttggct agattatgoc atttcgtaac attgattcta 360
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<210> 19073

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19073

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 tcaatgttag gtacataaag aacatctgat attaatgtga taactgaaca tgttgaaatt 180
 gcaacagttc cttttccttt tactgaaata tagccaccat tcccaattct gacctttgag 240
 acattanttg gcttcaaatc ctggaataga gtcttaccat atgtcatgtg gtttgtacaa 300
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<210> 19074

<23> unsure at all n locations
<40> 1974

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ttttaaataa ttaaagttag aaatatgac ataatgagcc ttatattaaa gtttaagtgt	300
cacacaaaaa ttgagggaaa ttggaatttc tattcaaaatt tcaattgaat ttgaaattga	360
atttgtggag acaaattttc gagccaaaaa ttcaactaatt atgatttagtg aattntagot	420
at	426

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<110>      19075
<111>      449
<112>      DNA
<113>      Glycine max
<400>      19075
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aaccocatct	ggaagcatca	caatacacca	caaaagattc	actcgggtta	ggtaaacacta	180
aaactagtg	agtgggtaac	ctttccttaa	gggtacggaa	actactctca	cattggggcat	240
ccacacaaaa	aacttgaccc	ttacgagtaa	gcttagtcaa	aggtaagggt	agcttagaaa	300
aaacctctat	gaatctacgg	tagtatcctg	ctaagccaag	aaagctccta	atctcaaaaa	360
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<E11>      489
<E12>      DNA
<E13>      Glycine max
<E400>      14076
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 attatccuac tcaatcagac aaccgactaa aaacttattc tgcctttaa tttctcagac 180
 attatccuac tcaatcagac aaccgactaa aaacttattc tgcctttaa tttctcagac 240
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 attatccuac tcaatcagac aaccgactaa aaacttattc tgcctttaa tttctcagac 360
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 taacaagta 489

<210> 19077
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 19077
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 gttagaaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat 180
 ttattttcaat acatgtgaaa ttttttttaa aattatagtt tatacgttat ttatttaaaa 240
 cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga 300
 atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat 360
 aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac 420
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<210> 19078
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 19078
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 ctaagctcac ctctctgaga tgagaagcta gaacttagct acacaccccc aataatagct 120
 aagctcctcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttad tacaagact 180

actaaaaatg ccccgaaata caaggctaaa accctatact actagaatgg tcaaataaag 240
 gcccaacoga aggataaacc tattctaata ttacaaaaga taagccgggt cataacttagc 300
 ctatggcttc caaatctacc cttaagctca tcaaaactct agggccttcc ctgcctcttc 360
 ctgctcttc ctgctcttc ctgctcttc

<210> 19077
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 19079
 acaaitgcac cactctcaca tgagctgggg aagaacaatg aggcatttac ctgcggtgaa 60
 aaacaagagc agtcctttgc ttgctcaca gaaaagctta ctaaggcacc tgttctagct 120
 ctctctgact gtctcaaat ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180
 cgttattggt acaaggtggg cactctattg cttattctaa tgaagacctc catagtgccc 240
 cctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300
 ggaacattac cttgctttca aagaatgtgt cattca 336

<210> 19080
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 19080
 agtcctgtag caaatgcaaa ccacaataaa ttatagctcg gatatcccat tgagtcocgt 60
 aataatcaca gagctcaca attgagtaca gaagctctta gcaaatcaaa acgacaataa 120
 cttctacac agatgtccga ctgggtcacc taatatatcg actcgtctga aactgaatac 180
 cgaagctgag agcaaatcca aacgacaatg acttttacct cggatatccc attgagtcoc 240
 ctcaatatac gagagttcg aaattgaata cagaaaactgt gagaaaattc taacgacaat 300
 aacttttac tggatgttc gattgagtc cgtaatatat ccgagcgttc aagatttata 360
 acggaagctc gtacgagatt caaacgacaa taactttg 398

<210> 19081
 <211> 388

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<.12>      DNA
<.13>      Glycine max
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[illegible]

```

<L10>      19082
<L11>      406
<L12>      DNA
<L13>      Glycine max

```

```

<400>          19082

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ttagatgaact actagatgga tctgtgagga tcttggatat ctgtagtaca attaaagatt   120

gctactgca acacaaggaa agagtgcatt aacttgagtc agctattcgc aggagaagag   180

atgcgcagaggc cggattcaca gtttcgagtg gaaaataactt ggcattctacg aagcaggtga   240

aaaaagcaat tcggaaggcc ttatgaaatt tgaaaggatt caagaatgaa ctcatatttg   300

cttctctaaa caaagacaac gagacattgt ccatgcttag cttcttaaaa gaatcagaac   360

tagtcaaccgt gagctcatta aaagccttct tgggtgttacc act                403

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4210+	19083
4211+	363
4212+	DNA
4213+	Glycine max

<223> ensure at all n locations
 <400> 19033

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aatgacatga tggaaacttgt tgtagcgttg tctggagact tgattcagac catagatgtg 180

ctaattttaga atgcaaaacca tacaatttga atgacctgat acaaaggttt aggggttgcac 240

catataaatg ggttcttcaa tgcacaaact tacaatatccg agcttaacac caatataatg 300

ggttcttcaa tgcacaaact tacaatatccg agcttaacac caatataatg

<210> 19084

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19084

tigcttttat ctaaaatctt gactcaccat aaaccttgac ccagagtggg aatgtcaatc 60

cttaccctct gtagcacaaa aagaagagaa tgaatatctt caatcaaacg ataaaggaga 120

aggaaaattt caatcaaacg aggaagcaaa aaaatgaaag aatgaaaatt tccaatctaa 180

ggaaatagag aggaaggaa attcccaatc aaagagtggg agaatgcaca tagaagagaa 240

agaanattgc caatcaaga atgggagaaa gaaaaaaga gaacgataag attgacagag 300

agctcatgat caatgatcga aagagaacaa aagacatgtg cagagatgtc ttgggaccac 360

acaatatctg aacaa 375

<210> 19085

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19085

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cagcgggttc aacacctgaa cactgtattt gggaagaccc ataagaagga taaaagtcag 120

agttgcatat ggaagaagag gtccatttc ttgatcttc cgtactcgtg tgatcttgac 180

gttagacatt gtattgatgt tatgcattg gagaaaaatg ttgtgacag ttgattggg 240

acgtctctta acattcaagg caaaccaaa catggtctaa ataccttca agatctagct 300

gatatgggtg taagagcaca gtgtatcca aggtctgagt ggaacaaaat tcaattgcac 360

ctagcctgcc atactntgtc caagaaggag aagataagtt ntgtcagtg tottctcgg 420

<210> 19086

<211> 442

<212> DNA

<213> Glycine max

ttttaaggta caacttgggg cttagcttaa gaaatgtact cagctcagca gagacctaac 60

tugctcatga gcacaaacat atagctgaag tccatgaag gaacatagat ttgttcggtt 120

ggcagccatc taacatgtcg agaattcacc ccagcattgt atgcacaaaa ttggttctct 180

guccttaggc caaacaatac tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240

caattagggg agagatcgac aagctactca attcccaatt catcagagaa gtcaataact 300

ctaactgtta ggttaacatt gtcattgtga ggaaggttaa tggaaaatgg caaatgtgca 360

cuaaatacac caacctgaac aaagcgtatc ccanaggcgt gtatccctta cctagcctcg 420

acaagctagt ggacgatgcg 440

<210> 19037

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19037

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acatctcgag acgtctgaaa ttgaaagctg aagctctgag ccaatacaaa cgaccataac 120

tttgtactcg gatgtctgat tgagtcctgt aacatctcga gacactcgaa attgaatgtt 180

gaagctgtga gccaaattca acgataataa cttttttcac ggatgtctga ttgagtcctg 240

taacatctcg agacgtcaa aattgaatgt tgaacctctg agccaattca aacgacaata 300

actttttact ctgatgtctg aatgagttcc gtaacatctc gagacgtctg aaattgaatg 360

ttagacctct gagccaatca aacgacaata actttttact cggatgtcat gattgatgtc 420

cgaacatctc 430

actaataaca tcaatcatag gttgataata tgtcgagtta attgcattaa atggcaactat 300
 agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 340
 aatgcactc ttcaggt 379

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19093

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 tctctactg gtttaacccc atccctctaaa tttattcaat gcatacatgt ggatggggcta 120
 atacctggaa tgtccgcacg ggctcagcct atagcctttt tatgcttctt gagaatagat 160
 aacagtcttc cctcttgcct atccgcaagg gaggcagata taattattgg aaaacttttg 240
 ctatcatcca agtaagcata atttaaatnt gatggtagag gcttcaattc tgggtgtgggt 300
 ggcctggataa tggtagaaaag agatggtttc tcagcctgta ccttataaag aaagtcagag 360
 gtatgtgtac ttnctganac aattggtagt ctatctaac 399

<210> 19094
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19094

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 aaatctgtac ctgtcgcaag ggcttctggt ttgtgctctt ctgctgacca ccatacagac 120
 ctttgcctt ccatgcagca acctggagca attgagcagc ctgaagctta tgcctgcaat 180
 atttacaata gacctctca acctcagcag caaaatcaac cacagcagag caattatgac 240
 ctcttcagca acagatacaa ccttggatgg aggaatcacc ctacctcag atggctcagc 300
 cctcaaaaac aacaacagca gctgctctt ttccttcana atgct 345

<210> 19095
 <211> 422

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19095

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taccagaca tctttgcctt gtcataccaa gatatgcccg gtttgagtgc tgacatcgta 120
caacacagat tacctctaaa tcccgagtgt tccccggtaa aacaaaagct gaggaggatg 180
aagcccgaga cgttcttcac aataaataaa agagggttaag aaacaatttg acgttggtt 240
cttgcctggt gctcggtact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tgggaaggta tgaatgtgcg tggat 325

<210> 19096
<211> 325
<212> DNA
<213> Glycine max

<400> 19096
aagataggaa cgggtatgac cacacccgtc cgtgaagaat taatggccct gccaaaaaac 60
taccagaca tctttgcctt gtcataccaa gatatgcccg gtttgagtgc tgacatcgta 120
caacacagat tacctctaaa tcccgagtgt tccccggtaa aacaaaagct gaggaggatg 180
aagcccgaga cgttcttcac aataaataaa agagggttaag aaacaatttg acgttggtt 240
cttgcctggt gctcggtact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tgggaaggta tgaatgtgcg tggat 325

<210> 19097
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19097

agcttatact cactgagctc ttcattgaca caagccctag ggtgatgaa tctactccc 60
aaagggcatt gcatagaaga ctccaagaag attgagccag agatgcataa caagggccta 120

gggtttcttat gagccttagg gtagattttg ggcccatgga ctcagtatga gcccaattat 180
 ctttgttatat attagattaa ggtttcatta tttttgggyc ttgtatttag gggtccatag 240
 ttaaggagg ataccctagt aatgtaggat ttttcagccc ttgtattta ggttacatat 300

<210> 19098
 <211> 328
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19098

ttagcttttat tttcaattta gagagtctcg atatgttacy agactcaatc ggacatctaa 60
 gtataaagtt atgttcgttt gaattctata tgagcttcgc ttttcaattt ggagcgtctc 120
 gatataattac aggaactcaat cgtacatcta agtataaagt tattgtcgtt tgaattttct 180
 cagagctttct gttctcaatt tcgagcgtct ccataatatta cgggactcaa tcggacatcc 240
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ccttttgaat ntggagcctc 300
 tcgatatatt acaggactca attagaca 328

<210> 19099
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 19099

ttctttaaac tctgtacaac aatgaagctc tgataccact tgttaaaca gtggcctcag 60
 atatcttaag aagggggggg tgaattaaga tattccaaac tttctctcta attaaaaatc 120
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatatttatt 180
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240
 gagaacatgc aaactcagtt ttatacttgc tcggccacac ccttctgctt acgtacagtc 300
 cccaagcaac cgccttgaga gttccactaa cctgttaaatt ccttttaca gttctaaaca 360
 ca 362

<210> 19100
 <211> 426
 <212> DNA
 <213> Glycine max

atgagttat aatgaattt tttttttttt gaaataaaa catatataat aatgtttat
 1
 attattttcca ctcaaatctt catatgtttg aaagtcatta atggtataga atagcattgt 180
 acacaaacttg aatgtctcat tttaataccc atcaaataga acaacccctt cgtccacaaa 240
 ctgtgtcaag tcttcaatca agggactgag ataaaaacatt aatgtcaatt tctggttgtc 300
 tcatagacaa catcatgtat gtctgcttca tgcacaacca atgaggataa ttgaaattac 360
 tctcaaaaaca ggtcatgaac tgtgtgaga gcttaaacta ccatagagat tcatccatc 420
 actggt 426

<210> 19101
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19101

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 cctcggaagc aaaaaagaat agaggggaaa ttccaatca aagaaaaaga gaaggataat 120
 ttccaatgaa agcaaaaaag aatgaagga atattcccca atcaaaagagt gggagatagc 180
 aaaaaaagga aaagaaggaa aattccccaa tcaaaagagtg ggagatagca aaaagaaaag 240
 atagataatt cccaacccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300
 gtcaaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360
 acagaattgt cactaaatga acaaaaaaga ggataggaaa ccgtgacctt naatgggtctt 420
 ctccctttaa t 431

<210> 19102
 <211> 419
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19102

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gctgggctgctg gctgggctgctg gctgggctgctg gctgggctgctg gctgggctgctg 120
gctgggctgctg gctgggctgctg gctgggctgctg gctgggctgctg gctgggctgctg 180
acatcaaca ctattttct taaaccttt aaacctcaac acctcaaca aggggtacc 240
tagaaactc aaattcaget catagtggct ctctctatgc cctccatata tcaggccctg 300
tagacottaa cttaaggag tggctnctg gcttggtggt ctgattcttc tgcctctgac 360
gcattagatn ttgctaata gttaacatg ttgtctata tntaactccc catatcagc 419

<210> 19103

<211> 403

<212> DNA

<213> Glycine max

<400> 19103

actcagcttg tcaaaaggga agcaagttaa gaaatccttt caaagcaaaa acgttgcttc 60
tacttcaaaa ccccttgaac tacttcacat tgatttattt ggctccctcaa gaactatgcg 120
tttaggtgga aattactatg gcttagtaat agtagatgat tactcaaat tcttggactt 180
tggttttgaa aacccaaaaat gaagcttttg atgattttca caaacttgcg aaggtgatcc 240
aaaatgaaaa aggtctcaac attgtttcaa ttagaagtga tcatggaggt gaatttcaaa 300
atgactttta tgaaaaaaat gaaattcacc ataatttttc tgcaccaaga acatctcagg 360
agactgggtg tctggagagg aaaaatagat ccattgaata aggtgcaaga aacctttctaa 420
atgaaacaag gttacctaag tacttttggg aagatgtata catactat 468

<210> 19104

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19104

gaatgccttc tctcttctgc caatcgaata aattcacttg tgcctcaggt ttgcactggt 60

tcttgaacca taatgatact ggtcaatctt tagttcaaat ggacaagsta aatgtgaaat 120
 ctaattgtca cctatacagg aatttggagg gaagagtgga aaggcggcag aaaacagaac 180
 ccatacctgt agtghcaagg acagaagaat gacttttctt taaattcccc agactttctt 240
 ccttct
 ccttct
 ccttct 300
 ccttct 360
 ccttct 420

<210> 19105
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 19105
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 tcaatttcga tctctctgac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120
 gacatattga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180
 accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240
 ttgttcaatt tgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300
 ttatgaccat ttgaatatct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360
 gatttgccctg aatcggacat ccgtgtgaaa acgtatgacc a 401

<210> 19106
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19106

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 actgtgggtg aacatttgtt atgcgagaac aagttcagac agattgtctc caatgaagaa 120
 tgttaagtgtt gtactttgta acagacatag aaaagaggca gagtgagaac ttgacaaaac 180
 ctgcgggatg qccaadctac caatagtgat gccgganana aggtcagatt tgaagagttt 240
 gagattatac ttangacccc atgggagaat aggggaacaa tattgagctc caaggatcag 300

ttttctctta agaggttggt ccttgaattg ggcagagga tcatcangga agaaagtctt 360
 ttgagccta ccttgagtt tctg 384

<210> 19103
 <211> 420

<212> DNA
 <400> 19103

tccttgagaa gctagagctt agctacacac acccatctaa gaactaaget caactccttg 60
 acaaaatata tganaatata aaaaanaaaa agtccctaca acaaaagacaa ccanaaatgc 120
 cctcaaatat aaggctaaaa cctataacta caagaatggc caaaatataa ggcctcaaaag 180
 aaggaaaaaa ctattctaat attacaaaag ataagcgggc tcatacttag ccatggggt 240
 cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300
 caacttggag tctttacccc aatgccttg cgggtgtanga ttgcacaaat atgt 354

<210> 19103
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19103

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 ttttatgaca ttgagcact tattattctt ttttaatat tgtttagtat gaactgaatat 120
 gatgattata ttaactatct cttggctggt tatgggtatg aattttaaac ttagtatttt 180
 tgataatata tgatcagttg tatgtacttt tatttgggta ttatgagtga ctcttcttga 240
 ttatatgaca ttctatgaag tatatctctt caagattgat gaatggttaa gttatcttgt 300
 ttgaattgtt tctattctct tttatgatta gtaatttatg tatgttttat atttggatat 360
 cattttgggt ttntgttgat gctaaaaggg gagagaaata tggattaaat caagaactcg 420

<210> 19103
 <211> 427
 <212> DNA
 <213> Glycine max

gatgtccgat tctggcaaatt cacatatcag gacactcgaa attgaacaat ggaagctctt 120
gagaatttca aatgggtcata acttttcaca cggatgttag attaaggcgc atcacatata 180
gagaagctcg aaaatgaaca acggaagctc tggggaacat aagatggtca taacttctca 240
tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
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<210> 19112
<211> 311
<212> DNA
<213> Glycine max

<400> 19112
agcttgtttt gatatcaatc ttgccaaaga gatactcggt tttggactga aaccccgagc 60
cagaggtctt gtcgaaggaa agagtggaaa gatcgccgtt gttgagtata ttgggaagac 120
catctcccca agttaagctc aaatcctggt agaagttgcc agcagaggtt gcgatggaag 180
aggccaatac aaatacataa aggacagttt ttgttgaaaa tgtaatggaa tgaagagaag 240
ccatgattgt tttgaatgaa atgtagaaag aggaagttaa aaatgtagta gcttggtaga 300
agtaatgaaa t 311

<210> 19113
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19113
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tcatttttcc catgtcattt ggtatccctc caaacagatg atttctagac aagttcaaaa 120
accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
aaagatcaat catctccacc aataccagat tgtctctgta ctctaaccca tctcttttgg 240
gaactaagac aagagtttcc ttgtagtggt tataactgaa gtcagagcca tatgaataac 300
ttanagggtt ggcaagaag tcatcttccac cagccattgt ctctatgtca tccaaacaat 360
ttggaatgga tcttgacagg ctgttatgac caagatccag caattat 406

<210> 19114
 <211> 366
 <212> DNA
 <213> Glycine max

atagacattc tcttaaaatc tctacacata atagcctc tgcatacag attgaaccta 120
 aaaatatata agaagccata atagatgata actggatcat tgcctatgca gaagaactga 180
 atcaatttga angaaacaat gtatggaaat tagtagaaaa acctgaaaat tctcctatca 240
 taggaacaaa atgggttttt agaaataagt tagatgaaca tgggtataatt attagaaata 300
 aagccaggtt agtagcaaaa ggttataata tagaagaagy aatagastat gaagaacat 360
 atgctc 366

<210> 19115
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19115

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 atatategag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgatactgac 120
 ttttactcgg gatgtctgat tgagtccctt aagatatega gaggetcgaa attgaatctt 180
 gaactcttga gctaattcaa acgacaataa cttttttctc ggatgtctga ctgagtcctg 240
 taacatattg agacgctega aattgaatgt tgaacctctg agctaattaa aacgacatta 300
 actntttact cagatgtctg attgagtcct gtaacttata gagacgctcg aaattgaacg 360
 tgaagctcc gagccaatcc aaacgacct aactgtntac tcggatgtct gattg 415

<210> 19116
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

cacatgaaca tcttccatat ttctccata atgcttcatt tgggtccaaa tagccaacac 240
 cttgttgcca aaatctgaga tagattcgga ttcttcata tgcattgatt caaactctct 300
 acatagaatg taacttcata ccttgtcttc ccaacatgac aatattgaaa gcataaattt 360
 tcttgccttc tcttgccttc tcttgccttc tcttgccttc tcttgccttc

<211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19119

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 gtaagtatac ataaattcta gagcttcgtt gtaattcgc tgcgtctcga tatattatgt 120
 gcttgaatcg gactctgag ctaaaagtta tgaccatttg aattctcga gagccttcgc 180
 ctgtcaattt catgcgtctc gatataatt atgcttgaat cggaccttcg agttaaagt 240
 tatgaccatt tgaatctct gagagcttc gttgggtcaat ttcgagcgtc tcatatatt 300
 atgtgcctga atcgacctc cgagtgaata tgtatgacca ttngaattgc tcaacagctt 360
 ccattggcca atctggagcg tctgatata ttatgcgctt gaatcggacc tccaggtaaa 420
 acgtatgac 429

<210> 19120
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 19120

agcttctcat atgtgtttg acctaaatcg gtcattcgag ttagaagtta tgaccatctg 60
 attctctccc gcggtctctt tctcaattc cgagcgtctc gatataattt gcactgaat 120
 ctgaccttcg agagacaagt tatcactcat gccaattgct catgagcttc cattgttcaa 180
 tctcgagcgt tctgatata tatgcgcttg aatcggacct ccgaattgag agatatgacc 240
 ttctcataac tcatagctc ccgcggtcca atttctaaag tctcgacata ttttgcgtc 300
 caatcggaca 310

<210> 19121
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 19121

tttactcttc tttatagcaa cctgttagaa tgaacacatt tttatctt atgtgcaaaata 120
 tttataatag aattgctcaa ccttagcaac aaaatcaacc acagcacaac aattatgacc 240
 tttccagcaa cagatadaac ccttgatgga ggaatcacc taacctaga tggtagatto 360
 ttgagcaaca acagcagcca gctttttctt tacataatgc tgttggccca agcagaccat 360
 acattctac atcaatgcaa caacagcaac tactctaata actagcaaca act 413

<210> 19122
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19122

agctttcana ttaagttgcc taatgcctaa aatgtttttt ctgatggtag tggtcctaga 60
 tgcagggaag aattttctca agaacacctt ctttaaggta tcccaactga aaatggacct 120
 gcgagcaagg tagtatagcc aatctttttg cactccctcc agagaatgag gaaaagcctt 180
 tagaaagata tgatcttctt ggacatcagg gggcttcatt gtggaacaaa caatatggaa 240
 ccccttaaga tgcctatgag gatcttcacc tgaagacca tgaaacttag gcaacagatg 300
 tattagtcca gctttgagaa catatggaac acccttatca ngatattgaa tgcacaagct 360
 ctcacaagtg anacaggtg cagccatctc cctaagagtc ctctca 406

<210> 19123
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19123

agcttcattc tccatcata ttcattgatg aagtagacag tttttgggt cagcgtcgtg 60

gaacagatca ogaggetatg ttaaacaatga aaactgaatt catggctctg tgggatggat 120
 ttacaacaga tctgaagttt aacagttatc atattttatt ttgttgata aatattgaaa 180
 ataagttgca aabaagataa tgacaatttt gatagagatt tagttggtaa cataatgttc 240
 ...
 ...
 ...

<210> 19124
 <211> 428
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19124

agcttacttt ctctatgccac tctactccaa attcttgaag gatatgttaa caaggaaaca 60
 taagttatatt caccaggaaa acatcgtagt ggaaggaaat tctagtgtctg tgattcaata 120
 gatccttcca cccaagcata aagaccctgn gagtgttaact attccttatt caattggaga 180
 agtcaactgtg ggaaaggctc ttattgacct gngagccaac attaatataa tgccactctc 240
 catgtgtaga aggttggggag agttggagat catgccact angatgaactn tacaacttgt 300
 tgatcgtctc attaccagac catatggagt aattgaagat gtgctggta gagtgaaaca 360
 ttnkatcttc cgggcagact ntgtagtaat ggatatctgt gaagatactg acattcctgt 420
 aataatgg 428

<210> 19125
 <211> 421
 <212> DNA
 <213> Glycine max

 <400> 19125

agcttataat tattgttagg agaataaaaac aatccaaaat caattgiacc ttccaagtaa 60
 cgaagaattc tttttggggc ttttagatga ggagaggtag gagcctccat aaagcgacac 120
 acaactccca cggcatatag aatatggggc ctgtgtattgg ttagataact taaactcccc 180
 acaagactct tgaagatcgt caactctacc tctctctctt catcaaaact tgataacttc 240
 aagccacttc ccataggtgt gtccacggga ttgcaatcaa gcatattaaa ttaacttcaac 300

acttcttttg tgtaccttcc ttgtgagaca aagataccat tctcgtttt cttcacttcc 360
 attcacaagt aatatgacat gagtcccata ttgttcatat cacattcaag agacatggac 420
 480

<210> DNA
 <211> Glycine max

<223> unsure at all n locations
 <400> 19126

agcttttggtt aatattatct actgganaaa gctatggggt gcttgttttg ggagagtact 60
 gcaccaatgc tagatcctta ngcatttgtt tccatgggta aaggtttaga gaaattgagt 120
 atgcatagca ctgggggtga gctaactgcc tcttgtaacg cgtgaaaggg tagcatggcc 180
 ttcggtgacc acacaaggtg ttccttgggc aagagatgaa tccacaggggt tgcctatggta 240
 gcatattctc tgatgaaaca tctatcataa cctgtgagac ccatatatcc ccacaggggt 300
 cttaaaggagg tgggtcggcg ccattgatga atggcaagta tcttgtcacg aacgggatga 360
 acacccggaa cggataccac atgac 385

<210> 19127
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19127

accttgtgtc tatctttcta ttgtcgaagc tgaatacata gctgcaagaa gttgtgtgtc 60
 tcaaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aggcctagga 120
 tcttcttcat caatggattc ctttgccttc tgggaagatga atggcagcgg aatggagaaa 180
 ggaagagaga gaggagagcc cacttcaagg agaagatgag tctagaagaa gctcaccacc 240
 ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300
 aagagcaaga natntgtgtc tctanatgag ctttgagatc tgaagtctaa tctccanatg 360
 atcaaaagttg anaaanatgc acacacatga cctctatcta tagcctaagt gtcacac 417

<210> 19128
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 19128

cttactata tta ctataa aaaggatata ctctctata ctctctataa cccctctctt
 ctaaggact gaagaactt gctaagatg tcttaagtga tcagctaggg tctactgta 240
 cactaaaata tcttcaaaat aaacaactag aaatctact atgaratccc ttaagacatg 300
 atgcataagc ctctataaagg tgccttggtg attagtgagc ccaaaaggca tcaactagtca 360
 tctatacaaa ccaaaacttg tcttgagagc gatttacaat cat 403

<210> 19129
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 19129

agctttgagc aaattgaaat gacaataact ttatacacgg atgtccgggt gagtcccgt 60
 atatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
 tttatacacg gatgtccggt tgagtccggt aatatatcga gacgctccaa attgaaaacg 180
 gaaactctta gaaaattcaa acgacaataa ctttttactc ggatgcccca cagagtgtcg 240
 taatatatcg agagaagctc catattgact atgaagcgtc gtatcatatg taaacgacaa 300
 taactttata ctacagatgc tgatagagtc ccgtaatata tcgagacgct caaattttag 360
 atccgaagct ctgagaaaat tg 382

<210> 19130
 <211> 445
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19130

cttgtagaaa ctctatctgc tactcaatgt tctgaataac tttttactac ttatcttgat 60

ttcaataagg aatttttgatt ggtcttcatt gtacaatcta tcccttttaa gagagatttc 300
 ttctctctctt cttcttactt ctgaaaaggg attaagagac tgagagtctc ttattgtaga 360
 ggattcttga acaca 375

<400> 19133
 DNA
 Glycine max

agcttgaagg caaactggat gcatgggta acttgytaac ccagctggcc ttgaatcaga 60
 aatctgtacc tctgcgaagg gtttctgggt tctgctctctc tctgacacac caatagagac 120
 ttgccccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctacaaaata 180
 ttatataatag acctctctca cctcagcagc aaaatcaacc acagcagaac taattatgac 240
 cctcagcaca cagatataac cctggatgga ggaatcacc taacctcaga tggctcctcc 300
 ctcagcaaca acaacaacaa cct 323

<210> 19134
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19134

tctgtccctg aganactggt tcccagaaga caacagggag tgaagattgc tgaaaaacct 60
 agccttgcaa caagtccatg ggaagtagac acggagatgg acaagaaaat ccgcagtatt 120
 gtgagttaga ttctgaaaga tcttctctgt cctgaagctg atgaagatgt cccaacatcg 180
 tccaacccaa atgtttctgt gctgatgtt gagaaagatg ttccaacatc ttccgcccac 240
 atgctgagta ctctctctcc ccagcaaaaga gagatcaaca gaggaagatg atcaagcgac 300
 aaaggagacc cctgcaccaa gggcaccaga acctgtctca ggtgacctca tggacctgca 360
 acaagtagaa tctgatgagg aacctattgc caacaggttg gcacctggcg ttgcagaacg 420
 attacaaagc cg 432

<210> 19135
 <211> 393

<212> DNA
 <213> Glycine max
 <400> 19135
 agctttgactt ctttgaacaa atagccctcca ggcacataaa atccatcttg ggcccttttg 60
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 attcttgatc actatgaatg acaaatttct tggaaacaag ataattgttc caagtttgga 360
 gggtatttat taaggcaaaa agctctctat cat 393

<210> 19136
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19136
 tatgtctgac acatttataa tagacctct cagcagcaaa accaacagca atagaataat 60
 catgaccttt caagcaatag atacaatcca ggttgaggga atcatccaaa tctaggatgg 120
 acaattctct cacaacaaca acagtctatc cctccttttc agaattgtgc tggccaagc 180
 aagccatatg ttctctctcc aatgcagcaa tagcagcaac aacaacaaag caacaagcaa 240
 ctatgcctct cctcaacctt acttaaaaga gttagtgatg cagatgacca tccagaatat 300
 gcaatttcag caagagacaa gagcctccat tcaaatgttg acaaatcaga tagggcagat 360
 ggtactttac atgaatcaag ctcaatccca aaattctgac agattgcctt caaaaactgt 420
 gcagaatgca aaacatgtga gtgccatcac ctgg 454

<210> 19137
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 19137
 acctctctct ggcacatctt caattgcttt ccaatttgac attcaccaca gatctctgct 60

tcttctatctt tcaagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgcctatctt tgaattcact tctcttgag 180
 gatagacatg tggaggagta gctgggttct tggggtgtcc ataggtaaca attgtctctt 240
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 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt

<210> 19133
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19133

tctgtctca attgagagcg tctggatatt gtacggcggt ctatccgaca tccaagttaa 60
 aagttattgt cgtggagtt ttgtaagagc ttctctcttc aattaagagc gtctcgatat 120
 attacgggac acaatcggac acccgagtta aaagttattg acggttgaat gcgctcagag 180
 cttctatctt caattaagag cgtctcgata tattacggga ctcaatcgga catctagcca 240
 aaagttttgt cgttcgattt ttctgagagc ttctgttctc aatgaagagc gtctcgatat 300
 actacgggac tcaatcggac atccgagtta taagttattg cgttgagaat ctgctcagag 360
 cttctgtctt caatttcgag cgtctcgata tactacggga ctcaatcnga catgcgagtg 420
 aaaagttatt gtctgtttgga ttggctcaga gc 452

<210> 19139
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 19139

agctttgatg caacattggg agaggttaat gaaacaacga gatgatggcg tccatgagag 60
 gtgggatcaa atggagaata gagatcacia tgaagaagaa aggatgagaa gatggaatga 120
 tgggttctct agacaaaacc gaattgatgg tattaaactc aacattctct catttaaagg 180
 aaagaatgat cggaggcct acttggagtg ggagatgaaa atagagcatg tttctcatg 240
 caacatctat gatgagagcc agaaggtaga gcttgcggcc accgagttat ccgactatgc 300

tcttctgtgtgg tggacaagaac tacagaatga gagagcaaga aatgaagagc caatgggttga 360
 tacatggagc gagatgaaaa agatcatg 388

<110> 19141
 <111> 275
 <112> DNA
 <113> Glycine max

<400> 19141
 agcttgcgaaa atggaagcaa agaagtctat ctatgggggg cagaatcaat ctcatcaatt 60
 cagttttatc agttttacat atctttttac tatctttttt taagatccct aaaaaagtgg 120
 tgcgaaaagat tctatcaatt cagagaaaatt tcttttgggg aggtcatcat gagggcgaaca 180
 agattccctg ggtgaagtgg gacacaattt gcttctctaa aaataaaggg ggcttaggga 240
 ttaagatct ctcaatttaa tgaggcttta ctgggcaaat ggggggtggga gctgactaat 300
 autcagaacc aaccttgggc aagaatctta ctctccagat atggtggcgg gaaggagtgg 360
 atctttgggtg gaaagagcaa atcttctctt 390

<110> 19141
 <111> 275
 <112> DNA
 <113> Glycine max

<400> 19141
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 ttccatggcc ttgtaagtga agaccacac aagcatctga aagaattcca tattgtctgc 120
 tccaccatga aaccaccaga tctccaggag gatcacatat ttctgaaggg ctttctctcat 180
 tctttatagg gaagtggaaa ggattggcta tattaccttg ctccaaagtc catcagagc 240
 tgggatgacc tcaagagagt attcttaaaa aaaaa 275

<110> 19142
 <111> 409
 <112> DNA
 <113> Glycine max

<400> 19142
 taacacatgt tccatcttc aaatcaaatc agtcttaaga catagtcttc aaacaatggg 60

ctatcatcca agtaagcata ttttaaattt gatggcagag gtttcaattc tgggtgtgggt 300
 ggctagatag tggtagaaaag agatgggtttc ttagcctgta cctcataaag aaagtcagag 360
 gtatatgtac ttcctaaaaa ac 382

<210> 19145
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all 4 locations
 <400> 19145

tcatagggag tcatgctaatt ggtagagtga aaactattgt tataagtga ctttatcaac 60
 ggcagaaaaa cttaccaatt ccccttttct tctaagacac acgcccctca aaggtccctc 120
 agtgactaaa tgggtcattc agtctgaggg tggtaggctg aacttagcct aagcttagtt 180
 cccaaagctt tcttcagact ctcacaaaat cttagagataa acctaggatc ctatcacaca 240
 catgctatat ggcacaccat gtaatctgac aatctcaata ctatataggg aggtcaactt 300
 ctccaaggaa aatcttatat taatgggaat attgtgagca aacttggtca gtccatcaat 360
 aataacctag ataaaaatcta aacctctggg ggtcctaagt agtctaacca canaatccat 420
 ggaaatacta tcccacttcc ac 442

<210> 19146
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 19146

agcttgtagg gttaaagtct cagcattgtc acgtactcat gcaacaattg ttagccgtgg 60
 ctatacagaga catcttgcca aacaaaattca ggttaacgat aactcgccctg tgcctttctt 120
 tccattctat atgtagcaaa gccattgac cagtcattgt tgatgagtta gaaaatgagg 180
 ccgcaattat aatgtgtcag taggagatgt attttccccc tgcctttctt gacatcatga 240
 ttcacttgat tgtgcattctg gtcagagaaa tcaaatgttg tggctctgtt catctacggt 300
 ggatgtaccc gattgagcga taatgaaga tcttaaaaagg gtatataaag aatctatata 360
 gtccaaaacc atctattttt caaac 385

<210> 19147
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19147

ttatgcaaaaa aacattgtct tccaacatt tcaatactcc tccagatgca taagggtcca 240
 tgcattgtgg aactatatac caatatatca ctcaataacc ataacacata ttgacttaca 300
 ggaatgtgga taatatgggt catcatacac tgaacagaat tegttagcatt ggtaaaacca 360
 aaagaaacta ccaaccactc ataatggcca tgaggagca caaaggtga tcatgtcta 419

<210> 19148
 <211> 391
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19148

agcttatggg ttgactcttg tatgcaggaa ggctggagag ctctcttat tctgagctgt 60
 tgtcccaaat tcattggggag atgacaaccg aagagctcgc aagacagttc tgcactctct 120
 tgggtcagtc ctatgagaac ccactgagtg tagcagttgc agcaggagtt gaggggttgc 180
 ctatactgtt aaagctggca aatgtaatgg cagcaaagaa gcaggagtgg caggaaatga 240
 agcagttgcc tgtgacagtt gaattgggta aggaatttca gttccattcg atttttgttt 300
 gccctgtgag tagggatcaa ggaagtgaag aanatctcc aatgctgcta ccattgcttc 360
 atgtcttttg caagcaatca attatgaagc t 391

<210> 19149
 <211> 392
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19149

agcttctggt gggacatctt cacttgcctt ccaatctgac attcaaccaca gattctgctt 60

ttttctattc ccacattggg aatgcctcta actgcacott tgtcaatgat tttcttcacg 120
 cctcttaagt gcagatgtcc aaatctttga tgcacatttc tgaattcacc tttcttggag 180
 atagacatc tggaggagta acggtttctc tgaagtgctc atactatgca gttcttcttt 240
 tttcttcttc tttcttcttc tttcttcttc tttcttcttc tttcttcttc tttcttcttc
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<210> 19150
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19150

tagagcaatc tgaactttcc aagtgatcac caaaggcttc tgcacacaca ttgacactct 60
 ccacccctctn tgccttaagc ttttgtgtg cattccctgc ttcctcctta taaatctcag 120
 atttattaga ggttgacgca gcacaatcaa gtgaatcatg atgtctctga ccagatgcac 180
 aatcaagtga atcatgatgt caaagaaaac aagggaacaa tacatctcta actagcacag 240
 tatcttgogg cctcatttcc agctcatcaa acttgacagg atcaatgact tttctacata 300
 taccatggaa gaaaaagcac aggtgagtta tggctaacct aactntggtt ggcaagatgt 360
 ctogtatagc caccgctaac aattgttgca tgagcacgtg acaatcgtga gactntaacc 420
 ctacaagctt aagctccttg aactacacaa ggtctttaat atttgaagag t 471

<210> 19151
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19151

tattgaaint atctctatag agtgtacaac aacgagagag atggacttag aaatcaagac 60
 aagcttcact gttggagaag gctcatgaac gtaatgctaa gctgtgtcta aatttgataa 120
 tagagatgaa aggttatgg gttaaaactg gccaatatat gtcaaacagt gcagatgtcc 180
 tttctgtctc ctatataagt ctttgaagc agttacagga ctctcttctt gctcaccctt 240

ggaagagttt ttcttcaatt ttttttattt taaaaatatt ctagtattatg ttatgggaaga 300
 aaaaatgctt ttaggaaaca atgtacatta tgtggctgta ataaaaagag cccacatat 360
 ttttgagga ttgtagatga ttgtgttca ttaacctact acaacattc aaagtattt 420

<211> 19152
 <212> DNA
 <213> Glycine max

<400> 19152
 ajettatgac aattagaaat tctcgagagc ttccgatgat taattttgat cgtctcgata 60
 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120
 gattccgttg tttgaatttc gagcgtctag atatattatg cgcctgaatt tgaattgact 180
 gtgaaagggtt ataaccattt gaattttctca agagcttccg ttatccaatt tccagcttct 240
 ctatatgtga tgcgcctaaa tcggacatcc gggaaaaaag ttatgacctt ttgaaattct 300
 caaaagcttc ggtagttaaa tttcgagcat ctcgatatat tattecctg aatctgaact 360
 ccgtgtaaaa agttatgacc a 381

<210> 19153
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 19153
 tcatcactaa ttacaagag aaataggaat ctatcacaga tttagagagt ggaccggaaa 60
 tttatgagtg tatagataat aaaatctata aatattatac tctaataaat aagtttatta 120
 attacttacc acatattata gcttttttta attgacctata tgttattctc ttcttgacaa 180
 tagattacaa atcattgatg ataattgcta tccaccgatg agttaatttc gtatgacctt 240
 tccacctaca ataccgacaa cttattatac tagaaacaaa atgttacata aaattttata 300
 ttgggtgata atttataata gtacataatgc ctgaaaattt gaaatgaact tttaggacta 360
 ttataatata 370

tctccagcaa cagatacaac cctggatgga ggaatcacc c aatctcagat ggotagccct 300
 caacaacaac aacaacagcc tgcctcttcc ttcacaaatg ctgctgggccc aagcagacca 360
 tacattctct taccattcca acaacacaaa cag 393

<210> 19159
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 19159
 agcttttggg atcaattacg agcgtctcga tatactacgg gacataatcg gacatggggg 60
 taaaaagtta ttgttatttg aatttgcctc taggtctctt tttcaattac gatcgccctc 120
 atatattatg ggattcattc ggacatccga gtaaaaaatt attgcccatt gaatttgcta 180
 cgagcttccg atttcaatta cgagcgtctt gatatacaac gaataacaat ccgacatccg 240
 agtaaaaagt tattgtcgtt agaattatgc tccagcttct gtttcaatca cgagcgtatt 300
 gatataattc gggactcaat ccgacatccg agtaaatagt tattgcccatt tgaatttgc 360
 catagcttct gttctcaatt ac 382

<210> 19160
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 19160
 ttcccttctc ctgcatatc ttgagggact tatgggcatt atgaatgaca aattccttgg 60
 gataaaagca ggtttgcat gtattcaaaag cccgcactaa agtatacaac tctttatcat 120
 aagtcgaata gttaaaagga ggaccactta cattttcaca taaaataagt cattagatgg 180
 ccttcttgcg ttacacagct cccaatccca acatttgaag catcaaaact aattccaaaa 240
 gattcctgaa cagtttggtt ccccaacctc ggggcattcc tatcttttgc ttaagaaaat 300
 tgaagcttct tcttcttcta tcttccatt tgaaaaacaac atttctcttg accaccttat 360
 tgagaggtgc tgcattgtgc cta 383

<210> 19161
 <211> 393

<212> DNA
 <213> Glycine max

<400> 19161

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<210> 19162
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19162

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 aaaagcttac taaggcacct gttctagctc ttctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgtattggt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgaca cctccctac ccacacctatg acaagagctt 300
 tatgccttaa taagagccct ccagacatgg gaacattacc ttgtttccaa ggaatttgct 360
 attcatagtg atcatcaatc acttaagtac attagagggc atagcaagtt aaacaag 417

<210> 19163
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 19163

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gagagcttct caggttctgc tatccactga tttagaggaag gccaccatto ttgctttcca 180
 atattcatag ttgctttccat cgagaattgg tggctctgttc actggtccgc cttctttctc 240
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<210> 19164
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19164

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 agtcaaaaga cactaactct tgaactcggat gtcgcattga gtctcgtaat ataccgagac 180
 cctcgttaatt gaaaacaaaac gctctgagta aattcatacg acaataaact ttcactcgga 240
 ttcccgattg agtgccatcg gatctcgaga cgcctcgttaac gcacaaggaa gctctgcaca 300
 agtnaaaaga caataatttt taactcggat ctatgatgga gcccttttaac atatcaagac 360
 gctcgaaaatt gataacggaa gctctatgaa aagtcaaaag accataacta ctgactctga 420
 : 421

<210> 19165
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19165

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 gttaaaaacc aaaaagcacc taaaattctc aataaaaatca aaaaacaaaa gctctagtgc 180
 ttcattcacc ctatccccaa tgcagatta agcatcaact cataattctt atgccccctg 240
 aaaaactctt atccadctct tttcaactcc ctccaaaaaa acaacgggtc ctctcatctc 300
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gataatatcg cacgtgatgt caccggctcc acc

393

<210> 19166

<211> 143

<212> DNA

<213> Glycine max

<400> 19166

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ctgcataatgt gatctgagat gagatctacc atttatacct gcggaaagga catacacaat 180

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gac 243

<210> 19167

<211> 364

<212> DNA

<213> Glycine max

<400> 19167

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ctatgcaagc tgaaagcctt ggaggaaaaga tgtatgcta tgttggtgtg gatgattctt 120

ccagagttac ctggtctatc ttatcagag agaaatcaga cacctttgaa gtattcaaag 180

agttgagtct aagacttcaa agagaaaaag actggtctat caagagaatt aggagtgacc 240

atggcataga gtttgaaaac ggcaagttta tcatctctgc acattgaacg catcactcat 300

gagttctctg caaccatcac accacctcaa aatggcatag ttgaaaggaa aaacaggact 360

ttgc 364

<210> 19168

<211> 376

<212> DNA

<213> Glycine max

<400> 19168

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agaaaatctc gattagtga catggttttc gtttccagcc gacgggaacg ggtgataacc 120

agaggattac ttcggtcctg atggaggcta ttaggggctt aatcgaaactg tcttgtcatg 180
 gctgtaccgc ggtaaataaa agattctctt ctgaagattc gaatcctact gatgaactta 240
 ttcggttgag tatgttgga atatgaatgc cgggtacctt ggcatacacc gattgttgta 300

<210> 19169
 <211> 416
 <212> DNA
 <213> Glycine max

<230> insure at all n locations
 <400> 19169

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 atggaatgtc aatcggtttg tctatacata atttttaaaa atgtatttta caaattaatt 180
 taaaattaat agctcatgta gaattcgaac ctatgacttt aaggttatta acacaacact 240
 ctaatgccaa taagccaatt atattataaa ataattacat tgrtttatgt aacactaaaa 300
 tttctaattg atatttaatt cacatgtaag tntatataat aatttttttg ataattttga 360
 tctcataatt aattttttta catatataaa tttttattaa acgtataatt tttatt 416

<210> 19170
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 19170

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 ttccatattg ttgttccac catgaagccc cctgatgtcc aagaagatca tatctttcta 180
 aaggtcttcc ctctctctct ggaggagatg acaaaagatt ggcataacta ccttgccttc 240
 aggtccattt tcagctggga tgaccttaag aggggtgtct ggagaaattc cccctgcctc 300
 taggaccact ggcatacaga aagatatctc aggcatacgg caacttaagt gagagagctt 360

385

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<223>      unsure at all n locations
<400>      19172
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r210 > 19173
 r211 > 412
 r212 > DNA
 r213 > Glycine max

<210> 19178
 <211> 378
 <212> DNA
 <213> Glycine max

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 aacaacaaac agttgaggct cctccgcaac cttccccac caattttcac gcacatgatt 300
 atgcaaaaac tgcaggttct acaagagagc acaggtccca ttcagagctt aactaatcag 360
 acgggacaat tggctaca 378

<210> 19179
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 19179
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 gaattggggag aagcccattc caattaaatt ttagaggggg aggtgagcat ttgcttgcta 180
 caccctattg ccacatcata ttgtcacact ttgtgcattg ccttcattgt ttacatgctt 240
 catgaacctt aagtacaatt actggagaat ctgcaccttg atcttggaca gtgggctgaa 300
 ccatagctaa aattctctaa tcataattaa tgaaaatgtg gcttcacata ttacacacca 360
 aattcaagtg aaatttgaat agaaattcaa atctacctcc cattttgtga gacacttaag 420

<210> 19180
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 19180
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canaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360
 tgaactattga attactccaa aacaaataaa actaygaaat ttgcaatac a 411

<210> 19184
 <211> 413
 <212> DNA
 <213> Glycine max

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 gctatattac gggactcaat cagacatctg agtaaaaagt tattgtcagg tgaatttggc 180
 cgaggttcaa acattcaatt ttgaggtctc cgtatatga cgagactcaa tcagacatcc 240
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 gatattttac gagactcaat cagacatctc agtaagaagc tattgtctgt tgaatttggc 360
 cagagattca acat 374

<210> 19184
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19184

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 agatggctga atctctcag acagttagca caacaacctt attttcaaaa tgttgtctgg 180
 ccaagcagac catacgttcc tccaccaatc cagctgcaac aacagcaaca gcccagaaa 240
 cagcaaacag ttgaggctcc ttgcacccc tcactogaag aacttccagg caaatgacta 300
 tgcacaacat gcagtttcaa caagagacca gagctctcat tcagagetta accaatcaga 360
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<210> 19185
 <211> 391
 <212> DNA

<400> 19185

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ccctcaacta aaggtgagtt t 381

4420 19136

011 > 287

412 DNA

4.13 Glycine max

<400> 19136

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acgtagggat tqataatacc ctggagctgc ccattcttagt aggcttgaaa gagatcgctg 120

ttagcacagc tgacgtgata gggaatacgc tagcacggat cagacttgcg atttgatgtg 180

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atcacaccgc catggtgcac tctctatata acctgcactg atgctgc 287

<210> 19187

408

4.12 > DNA

.(213> Glycine max

.0223> unsure at all n locations

<400> 19137

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tccttcctttg cagcaatttg gactcaattga gcaacctgaa gcttatgttg caaacattta 180

taatacactc cctcauccac aaaaccacaa acaacagaat aatta'gacc t'acaa'raa 141

tacatacaat ccaggctgga ggaatcctcc aaatcaagat ggacaaatcc tcaagacaa 300

aacagtctgt cctttctttn tagaatgctg ctgggtccaag caagccatat gttctctctc 360
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<110> 19189

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 agaatatta tgcgcctgaa tccgacctcc gagtgaagaag atatgacctt gggaattctc 180
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<210> 19189
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 19189

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<210> 19190
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 19190

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gcaggaacat taaactccat aaactcacia gaccaaatgc agctgatata attccacatt 180
 ctcccacactc tctacaccat ctccagcttc caaacccgcaa gtaaccccctt gcacacgcaa 240
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<210> 19191
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19191

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<210> 19192
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 caccactata tcaatccat aaactaatit tcaatttcaa ttgaattta cacaataaag 240
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<210> DNA
<211> Glycine max

<223> unsure at all n locations
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<210> 19194
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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 <211> 400
 <212> DNA
 <213> Glycine max

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<310> 19197
 <311> 526
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19197

19197 19197 19197 19197 19197 19197 19197 19197 19197 19197

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<310> 19198
 <311> 465
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 <313> Glycine max

<323> unsure at all n locations
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<310> 19199
 <311> 511

<212> DNA
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<400> 19199

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<223> unsure at all n locations
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catgtggcat ttacctgngg tgaaaaacaa gagcaatcct ttgctttgct caaagaaaag 180
ctaaactaagg cacctgttct agctcttccct gactttttctt aaacttttta gctagaatgt 240
gatgcctcca gagtgggagt tggagctggt ttgttacaag gtgggcactc tattgcttat 300
tttagtgaaa aacttcattg tggcaccctt aactaccctt cctatgataa agagtnttat 360
gccttaataa gagcactctg aacttgggaa cattaccttg tctctanga gattttcatt 420
catagtgate atcaatcact taagttcat 449

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<210> 19191
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19201

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agactggaaa gggtttteta atgaactctc tggggttcc acataaggca tagaggatgg    60
gaactcacc aaatctctt cctcactga tagaatgacc agatgacctt caactacaa    120
ctctctctt cctcactga tagaatgacc agatgacctt caactacaa    180
ctctctctt cctcactga tagaatgacc agatgacctt caactacaa    240
agggtatc tttactgga gataatctc tggcctaacc tctcggggg tcccgctcaa    300
ggcagaac accatgga ttggtttta gtyggaggca ttgaatggta attctcdaa    360
agtgatctta ggaatcagtt ttaactgga accattatcg atgagcactt tggctaagat    420
atggctcata caattgactg atactgcan agccttatta tgcctt    486

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<110> 19202
 <111> 511
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 19202

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gatgatttct ccagatttac ctgngtcaac tttatcagag agaaatcaca aacctttgaa    120
gtattcaagg agttgagttt aagacttcaa agagaaaagg actgtgtcat caagagaate    180
aggagtgacc atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa    240
ggcatcactc atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaagg    300
aaaaacagga ctttgcaaga ggctgctagg gtcattgttc atgcaaaaga atttcctat    360
aatctctggg ctgaagccat gaacacagca tgctacatcc acaacagagt cacacttaga    420
agaggcactt caaccacact gtatgaaatc tgggaagggan gaagccactg tcagcacttc    480
acatctttga agtcatgtac a    501

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<210> 19203
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 19203

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 cgtctctctt acacattgac tttagcgagc ttcattcttg tcttcgaagc cactctctac 180
 gctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
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 atcttgagc tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
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<210> 19204
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19204

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 ctgttcctct ctgttcgagc atcttgagc attgaacagc cttaagctta tgttgcaaac 120
 atctacaata gactctctca accttagcag caaaatcaac cacagcagaa caattatgac 180
 ctcttcagca acagatacaa tctcggtatg aggaatcaac ctaatctca atgggtctagc 240
 ctctacaac aacaacagc gctgtctct tcttccaaa atgtgtctg tccaagtaga 300
 ctctacatt ctcttcagc gcaacaaca caacaacac aacagagac acaatccact 360
 actgaggcc ctcttcacac ttcattggaa gaattagtga ggcacatgac aatatagaac 420
 at 482

<210> 19205
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19205

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 agagcttagc tacaagtaac tctctaatag ctaagctcac ctcttgaga tgagaagcta 120
 gaacttagct acacaccccc tataatagct aagctcaccc ctcttcacaaa aaaacatgaa 180

aatacaaaaa aaagtcctta ctacaaagac tactcaaaaat gccccgaaat acaaggctaa 240
aacccatatac tactagatgg ccaaaatata aggcccaaac gaaggaaaaa cctattctaa 300
tatttadaaa gataagcggg cttataacttg gcccatgggc tcgaaatota cccctaaggct 360
ctggccttctg ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
ctggccttctg ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
ctggccttctg ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
1 311

<310> 19206
<311> 326
<312> DNA
<313> Glycine max

<400> 19206
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ccgcgggaaa aggtgtgacc attggacttt ctagagagct acgttggtta attttcaagg 120
gtcgtatat ataatgccc tgagtctgac ctccgaggta aaaggtatga ccatttgaat 180
tgcctcaagag ctaccgtggg tcattttcaa gcctcgtat atataatgg cttgagctctg 240
acttcgagt gaaaggttat aaccatgcga attgctcaag agctcgtctt gtacagttcc 300
gagcgtgttg ttatattatg cgcttg 326

<310> 19207
<311> 407
<312> DNA
<313> Glycine max

<223> unsure at all n locations
<400> 19207

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cctacatgaga aaatggctat atttgcctag ccaatcaaac accaccatga tagcattttt 120
ccttctgtat gttggcaacc cctcactaaa gtcaatggta acatctctcc acccttgatc 180
tcgaattgca agaggttgtt tcaaaccaac tggctctctg gtttcataat tatttactta 240
ngaaggcaat tgaatgttta ccttcttcaa ccacccgacc tatcacaata tcaattgcat 300
ctgtttttac agtgaatggg caagaaaatt tgacatgaca aatgttgggt tagacatcat 360

407

111 277

1999 2000

ctteettaag aagattcgta aagaagctag agcttagcta cacatacctc tetaatagct 120
 aagctacact ccttgagatg agaagctaga gcttagctac acaccccccata taatagctaa 180
 gctcaccccc atgacaaaaa acatgaaaat aaaaaaaagt ccttattaca aagacaactc 240
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 300
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 360
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 420
 ccttattaca aagacaactc ccttattaca aagacaactc ccttattaca aagacaactc 480

<210> 19213
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19213

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 taacatgctt ctcaccatgt tcatgatagt tetgttccct ctttcagcca ccccatgtgt 120
 ttgggggtgta taaggagtag gtacttcatg aagcatccct tcatcacaat tatttttgaa 180
 agtcatgtga agtatattca gctcacatc tgtccttacc accttaatta cctttccact 240
 ttgtttttca cacatcaatt tagacttctt aaaaacaaac aacacttcac tttttctttt 300
 taatagataa attacatca tcttggtatg ttcacaatg aaggatacga agtacctgtt 360
 acctcaaga gactggatct canagggctc acacacatct tatttgatag tgagagtgag 420
 agagacattt tagagagaan aactgatata atttcattct aaaaagttag ttacaaagag 480
 gtatatatag acctctaaac ctctgaacta agcanacaga aacaacc 527

<210> 19214
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19214

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 atctataag gagaatctc caaagggtt tggtaaggcc tcttggtgag ccatadauca 120

aatctcccat gcttcttttgg atgtggttgc atttgacacc aactcc

406

<210> 19317

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19317

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 aaaaaaaaaa gctgctggatt cagtagcacy ggttgaata agagctgggt gtcattatgt 120
 taataaaaaa gctctctgggg gtatgttaac gaattggtat actacagaaa cactgacttca 180
 aagcttcagg gacttgagaa tgcaacaaaa gacggngaga ctcaatagtt ttccaaaaag 240
 agatgcctgt atattgaa-ga gacatttagc tcatttggaa acatatcttg gctggcattaa 300
 atatctgacy gctttacctg atattgtaat aatctctgat caacaagaag aatatacggc 360
 tcttcagaaa tctataactn tggaaattcc aacaatttgt ttaat 405

<210> 19318

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19318

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 agatcataca atgaagtacc gcacgagtgg gtatatagga atccaaatct gcgaatcac 120
 tcatgttatg atctcttaca tcttaggtct tccggtctct tcatctggct tatgtttctt 180
 atgttagcatt cagactgaat gactctatga aattacgtcg ctacttccac atgggtacggg 240
 taacttagga gacatctcta tttttccggg ggggaatctt tagaattacc acagctttagc 300
 tntcaattcg cctctgacca tcaaatgaaa tctgaataac ccttctctcc ctctntgaaa 360
 ctntgaaaca aaggggtgctt ccggttctgt cgggtcttga aacaattnta gtcttctcat 420
 attactatat ctctgagagtc acataattta tatgaggaac tactgaactc aatca 475

<210> 19319

<211> 535

<212> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 19219

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agggaaggcg aaggaaaaaa ataccacaaat ctactcgcata taccacacaa cactcctcctc 1

aatgcacaag gggttcacac agctgttcga actttaggaa gttctctgtt cttgaatttt 300

gatttagaaa gatgggaatt tgtaagagac catgagatct ggaacttaaa ccaaaagaaa 360

gatgacattt tacttgcctt taagttgagc tatgatcaaa tgcacacctt ttggangcag 420

tgtctctgctt atttttcctt ctttttccaa ggatttggcc acattgggtc tcantttgtg 480

agtctttgcn gatcatttgg attacttcga tcttctctctg gaagt 525

<110> 19220

<111> 510

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 19220

gaaacttcct agctgcctga tattgagtgg tctagggcac totagaactg totgcacctt 60

agtagcatcc atagcaactc cttcacctga aactatatgt cctaagtact ctatctccaa 120

tacacacaaa gagcatttag acaacttagt aaacaaaaaa tttctcttca acactttcaa 180

tacagcctca agatggcata agtggttcct ccatgtggaa ctatatacca atatctcctc 240

aaaaaacact aacacatatt tccttaaagg atgttggaaa atatggttca tcaaacactg 300

aaaagaagtc ggagcattgg ttaaaccaaa tggcattacc aaccactcat aatggccatg 360

gtgagttcaa aaggctgggt tatgtctatc ctacagtttg actagtatct ggtgatagcc 420

cgaccttata tccaghttag aacaatactt tgcaccaaat agttcatcta acagcttgggt 480

catagttagc acagggaaac tatcttttac 510

<110> 19221

<111> 404

<112> DNA

aacacctaca canaatggng tagttgaaag gaaaaataga actttgcaag aaatggtagg 120
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 tgcctatgttc aaaatagaat atggtaagac attgattaaa aagactcctt atgaactgtg 240
 atgactcctt atgactcctt atgactcctt atgactcctt atgactcctt atgactcctt
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<210> 19124
 <211> 422
 <212> DNA
 <213> Glycine max
 <23> unsure at all n locations
 <400> 19124

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 acgaaataat gagactgaga ttgccaaact taaaggagag atgataagag agttcgaaat 120
 gactgatttg gaacttattt cttattttct tgggaattgaa ttcaagagaa ctaatggggg 180
 agtgatcatg aatcaaggga ggtatgaaag agatgtactg aagaagttca gaatggttga 240
 ctgcaattnt gcagacacac ccactgccac tgggtgtgaac ttggtgaaag atcctaataga 300
 agaagaagta gatgtaacat tgtatagaca aatgggtgggc tcactgaggt atctnctgtg 360
 taactagacct aacttattgt atgttgnctg ctttaattagt agatatatgg agaattttga 420
 ac 422

<210> 19225
 <211> 276
 <212> DNA
 <213> Glycine max
 <400> 19225

agcttcttctg ttctggtaag atatgccca tagtcaatag tgcctgggtt actcccttgc 60
 gagtgggtat acagaaatgg ggtacacaga ttatcactaa tgaccagaat gagttgattc 120
 ccacaataac tatgaccgga tgaagaatgc gcattgatta tctgaagcta ataaagcta 180
 cacaacata tcattcttct cttacttctc ttgataaaat gttgggaagc cttatgggat 240
 aagcctatta tactttcctt gatggtaatt ccgat 276

acaagtcctg cacaacaaca tcagcatgtc cctcctttcc agaatgttgg aggtccaatc 180
aagccatatg ttctctctcc aatacagcaa cagtgcacaac aaagacaaca tgcaactgaa 240
gttcttaactt aatctctctt agaagagtta gtgaggaaaa tgaccattca aaatatgcaa 300

<210> 14127
<211> 141
<212> DNA
<213> Glycine max

<400> 19129

acaagcactg ccgcagtggt acaagacagt taatgagttt atgagcgact cagcattcac 60
aagatgtgac atggaccatt gctgctatgt taaaaaatat actaatagtt atgttatccc 120
ttgtgcgtat gctgatgaca tg 142

<210> 19230
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19230

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gaaatgttat gaccattcga attgtctgag agcttctgtt gttgaatttc gagcgtctag 120
atgagttatg tcaccgaatc ggacatctgt gtgaagagtt atgaccattc gaatttctcg 180
acatcttccg ttgttcaatt tcaagcgtct cgatatatta tgtccccgaa tctgtcttct 240
ttgtcaaaaag ttggaccat tccaatttct ggacagcttc cgttgttcaa tttnagggt 300
ctcgatatat tatgtccccc aatcggacat ttgtgtgaaa agttatgacc attgaaattt 360
cttgagagct tccgttgctc aatttcaagc gtcctgatat attatgtccc ctaatcagac 420
atcccagtg aatgttatga 440

<210> 19231
<211> 240
<212> DNA
<213> Glycine max

taaaatgtta ttg

433

<210> 19234

<211> 249

<212> DNA

<213> Glycine max

<220> unsure at all n locations

tttttgggtt aatttgaatt aatttgaatt ttttatttggg atttttattt ttttatttattt

ttat ttggag aattttgaaa tggaaatttg aggttttgag caaattdaaa cgacaattcac 120

tttttactca gatgtctgat ttggtaccgt aatatgttga gacgttcaaa attgaatact 180

gaaggtctga gcaaattcaa acgacaataa ttgttcaact agatgtctga ctgagttccg 240

taatatatc 249

<210> 19235

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19235

agcttaccat tataggaggc catggataag agcttggagg aagaacgaga tgaatgaagg 60

gagagggaga gaatagcaca aaattttgtg ctctaaatga gctttgaaat ctgaagttta 120

atattcaaat ggtcaaagtt aaaaaaaaaatg cacacacatg acctctattt atagcctaag 180

ttgtcacaaa aattggagag aaatttgaat ttcaattcaa atttcacttg aatttgaaat 240

tgaatttgtg gagacaaact tcggagccaa aatttcaacta attatgatta gtgaattnta 300

gttatggttc agcccactaa tccaagatca atctcaagat tctccattaa gcgtgcttan 360

gtgtcatgac gcatgtaaaag catgaacgac atg 393

<210> 19236

<211> 427

<212> DNA

<213> Glycine max

<400> 19236

ttgtcacaagt atattttaacc tgaacctctt aaaaagcttgg caaacatacc agccagctga 60

ttgctggagt taacaatggt gggttgtaatt tcgcttgaaa gcaccttttc tctaacaaaag 120

tgacagttga tctttctatg cctttgatct tttcatgtgt ttgtctccca attttagttg 180
 ttggagtagt tgcctaagtt ccataagctc acatgtgact attgcatag aacaaaatcc 240
 aactttcca ctgagctag taatttgtt ttccttatt ctcttcata atattagtt 300

40000

<210> 19237
 <211> 430
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19237

atccaccatc ctgaggttac aatatttatt aatcatataa tngnaagcat aagcattagg 60
 cacaattcca ctgtggttca tattctcata catttaaaac ccttcccttt gaaggccttg 120
 ctgaaaaag cctgtcatta acacaccaca actatggttg ttggcaacca aacccaacct 180
 atccatogtg caaaacaact tctttgccag cctaacatct gcactcttgc aacaccata 240
 aatcaagta ggttatataa caacattcag agagaaacca aactcttnca acatggccaa 300
 aagcggaaa ccttccatca agtcaccaga ttcacaacga ccttgcata taatccaaa 360
 actgtaggca tcataacaa ctttaagctt gaattcatta tatacccacc aagctatata 420
 gaaacaattt 430

<210> 19238
 <211> 435
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19238

atactcagc ttgccttgc ccttgatata ttgaggggtt tcatggttt tatgaatgac 60
 atattccttg ggataaaggt agtgttgcca tgrattcaaa gcccttacta aggcatacaa 120
 ctgtttatca taagttgaat agttaagggt cggaccactt aactttcac taaaataagg 180
 aattggaagg ccttcttgc tcaacacagc cccaatccc aactttgaag caccacactc 240

aatttcaaaa gatttttgaa agattggcaa cgcaagtatg ggggcattac ttagcttttg 300
 cttagaagaa ttgaaagctt cttattgttt gtctcgccat atgagaccaa cattcttgtt 360
 gaggcttca ttgagagggt cctggatgtt gctgaatcc ttcaaggatc ggctataaa 420

<211> 312
 <212> DNA
 <213> Glycine max
 <400> 19239

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 catcattcct ctccatttta tttctgagat acaagcttta ggtaaggggg ctctttcatg 120
 tggctatggc aatagacaa ggaatctca aatgtcacct tatatatctg cacagtgtaa 180
 gggcattcat attacaaac ttattacaac tgctcgggaa aacatggctt gtctggggag 240
 ctaccccatg tattctgcat atctttctca atttactgct gaaaatacaa ttctatgttg 300
 aattggatga ac 312

<210> 19240
 <211> 271
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19240

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 cgcaaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaaa aggagaacaa 120
 ttagtgggtgc tatgaacaac tctattgtaa gcaaattcaa catgggggtta acaagctctc 180
 caagttttta agttattcct caaaactgtc ctaagcacag ttcccaaagt cctattaaca 240
 accttccgtt gcccatcggt ttgtgggtga c 271

<210> 19241
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 19241

tgctttctaca ttctctcttg aagagaagga tattactttt gaagtcata gagaaactct 60

taatggattt gcaagtgtt gcccaagagt ttcttttgag agagcattg gcaatgaatt 120

ttcttttgag gcaatgaatt ttcttttgag agagcattg gcaatgaatt 180

ttcttttgag gcaatgaatt ttcttttgag agagcattg gcaatgaatt 240

ttcttttgag gcaatgaatt ttcttttgag agagcattg gcaatgaatt 300

ttcttttgag gcaatgaatt ttcttttgag agagcattg gcaatgaatt 360

ttcttttgag gcaatgaatt ttcttttgag agagcattg gcaatgaatt 420

ctttttc 487

<210> 19242

<211> 251

<212> DNA

<213> Glycine max

<400> 19242

agcttggttta caaaaacctt ttgggtttcg attagcttat gagaagaaag tttagggact 60

aaateccata ctccattcct tttaaactga tttaattctt catgcaaage caacaaccaa 120

tgctcatcat gtagtgttcc acatcttcat ctccacagc attttcttga acaagagagt 180

tagttccatc acaacaaca tgtacatatt ctccacaca taatgttctt ctattaaaca 240

ctcttatgct c 251

<210> 19243

<211> 347

<212> DNA

<213> Glycine max

<400> 19243

agcttaatac caaaaatgac atctatagga caaaggctct ttatatcaaa attactagac 60

aagaaagact tcaatcatt tatgaaatgt atattactat caaatatcat tatgtcatct 120

gcatacaaac ataaaatgac acatccaata tcatcaaat gtttcacata cacacattta 180

caactatlat tgaattgaaa accatatgaa agaacaactt gatcaaaact ttcatgtcat 240

tgctttggag ctgtttcac accacataaa aatttcaaaa gtatgtaaac tctctttctt 300

ttaccgatt ctacaaaacc ttacgttagc tcatactaaa ttcttct

347

<210> 19244

<211> 303

<212> DNA

<213> Glycine max

<400> 19244

ttaccgatt ctacaaaacc

ttaccgatt ctacaaaacc ttacgttagc tcatactaaa ttcttct

ctgaatgaag ggggagtatg gaggattggc ttgaggggtcc acacttaggc aattatgaaa 120

ctcaagtcca aactcgaaag tggaggacac atgaacaacc ctaagcaaga acattcatgt 180

ggtctggac aaggacgaga atggaggatt gcttgagggt tctctcttta tgcaatcatg 240

aaacacagct tcatactcaa aagtggagga cacacgaaca ggcctaagca agaacattca 300

ttt 363

<210> 19245

<211> 437

<212> DNA

<213> Glycine max

<400> 19245

tatgctgcaa acatttataa tagacctct cagtagctta accaacatca gtagaataat 60

tatgatcttt caagcaacag atacaatcca ggttggagga atcatccaaa tctgagatgg 120

acaagtcttc cataacaata acagcatgtc cctcccttcc agaatgctgc tggctctagc 180

aagccatatg ttctctctcc aatgcagcaa caacaaagac aacaagcaac tgaggccctt 240

ccttaacctt ccttagaaga gttagtgagg caaatgtcca tccagaatat gaaatttcag 300

caacagacaa gagcttccat tcagagtctg acaaatcaga tggggcagat ggctactcag 360

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aaaaatgtga gtgtcat 487

<210> 19246

<211> 334

<212> DNA

<213> Glycine max

<400> 19246

<210> 19249
 <211> 207
 <212> DNA
 <213> Glycine max

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 gggatgagga gggatgagga gggatgagga gggatgagga gggatgagga
 gagatgagga gggatgagga gggatgagga gggatgagga gggatgagga 180
 gggatgagga gggatgagga gggatgagga gggatgagga gggatgagga 207

<210> 19250
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19250
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 cccgtgcaga tacaatacta gaaggaattt catgcaacct tactacttcc ttgatgtaca 120
 actccacgag tctctccatt ctatacttca ttttcaactgg gataaaatga gcagatttgg 180
 ttagctgato tactatgacc cacacagcat catgtccacg actagtcttg ggtaaactag 240
 atacaaaate catagatatg ctctccatt tccattccgg aatctccaat ggtttcaatt 300
 ctcccgatgg tggttgggtgc tcaaccttag ccttttgaca ggtaaaacat cttgtacat 360
 attggctac atctttcttc atgcatgcc accaaaaact tctcttcaaa tcttgggtaca 420

<210> 19251
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19251
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 ggaagcagct tcatatgcta gcgtgactac gaatgtgggtg atcagattca ttaagaagga 120
 gataatctgc agatatgggt tgcaccaaaa gatcatcact gataaaggca ccaatttaaa 180

caacattatg atgaaggaaa tgtgtgagga ttccaaaac caacaccata atttcaagcc 240
 ttattagcca aagatgaatg gngcagttga ggctaccaat aaaaacatca agagaatcat 300
 ccagaagatg acctatgtcat ac 322

<200> Glycine max
 <100> 19252

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 tgacagttga tctttctatg cctttgatct tttcatgtgt ttgtctccca attttagtgt 180
 ttggagtagt tgccaaagtt ccataagctc acatgtgaat attgccatag aacaaaaatcc 240
 aacttttga cttgatctag taattatgtt ttctttattg ctcttccatg atattaggtt 300
 tctccagca agaacacagt atccttaagt gcatcttgtg tctaagggtg acctttccca 360
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 acctagt 427

<210> 19253
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19253

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 ataattctac caccatggac tctatttctc gcccaagtgt cacacaaaat cggaggggaaa 180
 tctgaatctc tattcaaat tcaattgaat ttcaaatga atttntggag ccaaaatttc 240
 actaattatg attagtgaat gttagctatg gttcagccca ctaatccaag atcaagccta 300
 cactctccca ctaatatgct taagtgtcat gaggcctgta aagcatgatt gatgtgcaca 360
 aagtgtgaat atatgatgtg gcaatggcgt gtaacatca catgctcacc 420

aaatgagcta tgaaatctga agtttaatat tcaaagatgc aaagttgata aaaatgcaca 120
 cacaatgcct ctatttatag cctaagtgtc acacaaaatt ggagagaaat tagaatttct 180
 attgaaaaat caatttaatt tgrgaaacca aactctggaq caaaaatttc tctaattatc 240
 tttttcaaca cacacatcat atattcactt aatgcattgt aaatta 466

<210> 19257
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19257

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 ctgggcgtat tccttgaatg actcatgtct ttttttacac atgttttgta gttgcgttct 180
 atccggagcc gtatcataat tgtactgata ttgcctaacg aaggcaacca ttaagtcctt 240
 ccaagaatag actcgggaag gctccaagtt agtgtcatac cctaattttg ctgcggatta 300
 taacttgcca catgcaacct ttgattgcgc gtttcaagat acttgccgac ctttgttgca 360
 caatatgtaa gtcttgagac gcaccggaag tcacaaggag cagggttatg 410

<210> 19258
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19258

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 atatggagaa aaatgtgttt ttagtcttta tatttttggc aaaatataat taagggttct 120
 gtacctttat attgataaat ttaattttcc caactctaaa cggcgtgtat ttaactctt 180
 ttattcttaa gatttcatta tattttttta agctattata tccataaatt gtttaacca 240

togatactaa ttctgatcta cttatataaaa atctcgattt aagctgogaa agaaaaaaat 300
 aacatgtaat cgagagacaa gattctctag aagcgattag tcacttatac aaagatcaat 360
 atcagcaaaa ttacttaata ttcatataa atactatgtt aaaat 418

<210>
 <211>
 <212>
 <213> Glycine max

<223> unsure at all n locations
 <400> 19259

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 acgcagcctt tcactgtatc cgggtttggc aacccaagat gttcttttgg agtcacataa 120
 ctcagaagag ctgtacctag tgcaccaata ttgcagcac caattgcaga cgcgatgtga 180
 tctatagccag ggccaatata agtattctaa tgaaccaagag tgtaaaaagg cgttccacta 240
 caccattcta actgtttctg catgttttca cgaatcttgt gcattgggac atgcctccgc 300
 cttcatctca taccgtgtaa gtaacttaaa gtaaaaaata taccocatca tcttcaagat 360
 atattgatgg taatatcgcc tcacatgatg a 391

<210> 19260
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19260

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 ggaatggaga agaagaggag ttgagaggag acgcaccttc aacgagaaga tgagtcaaga 120
 agaagctcac caccatggcc tctatatata gcttaagtgt cacacaaaat tggagggaaa 180
 ttgcaatttc tctcaaaatt tcaattgaat ttgaaattga atttgtggag ccaaaatttc 240
 actaattatg actagtgaat tctagctatg gttcagccca ctaatnnaag atccccctcc 300
 agattctcca taagtgtgtt taagtgtcat gaggcattga aagcatgaac gatgtgcaca 360
 cagtgtgaat atatgatgg gcaatgggtt gtatcatgca catgtttcac ctccccctta 420
 caatttaatt gga 433

<223> unsure at all n locations
 <400> 19263

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 attctgaag atttcaaac gacaataacg ttttactcgg atgtctgatt caatcccgta 120
 caatcccgta ttttcaaac gacaataacg ttttactcgg atgtctgatt caatcccgta 180
 caatcccgta ttttcaaac gacaataacg ttttactcgg atgtctgatt caatcccgta 240
 caatcccgta ttttcaaac gacaataacg ttttactcgg atgtctgatt caatcccgta 300
 caatcccgta ttttcaaac gacaataacg ttttactcgg atgtctgatt caatcccgta 360
 caatcccgta ttttcaaac gacaataacg ttttactcgg atgtctgatt caatcccgta 410

<210> 19264
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19264

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 atgtcttctt ctcaatcccc atgcaagaat gcagttttta catctaaacta ctccaagtga 120
 agattctctg cagctacaat actcacataa ctctgatggt agtcatcttt acaactggag 180
 agaagatttc tctgaaatca attccttggt tctgctgaaa ccttttcacc acaagtctct 240
 ccttgatatc tctctatcgc tcggattntt ccttttagcct atagactcac ctattctgta 300
 acgctttctt tctctctang aaattagtta aagaccacgt cttattcttt tgaaggggtg 360
 tcatctcacc tttcctcgtt agtcccaact caatagt 397

<210> 19265
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19265

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 aggaguctta tgggtggaag acaacaataa tgatttctcg gccattcctg ctctccatcg 120
 tgaccataac agacgtatgt atctatghag catgtctctt tacagactca cctacagttt 180

actatgttctt tcaaccata aattgcgaat cattacagca tggcgcaatg tcattttgta 240
 tattaattag ttctactag aagctaccac cttttgttaa tatattattn taaacctcat 300
 aaactcttaa tttctcatta tttactaaag tacatgcata cagaattaac atagcattga 360

<210> 19266

<211> 415
 <212> DNA
 <213> Glycine max
 <400> 19266

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 catagggcac ttgggatac ataagacctc tgcatactc agagacaagt ttatttgggc 120
 ccgttgtgaag aatgatatcc ataagctttg tactatgtgc gtggtttgtc tacaagccaa 180
 gctacggtg atgctcatg ggcatacac aaccttacc caccatctg cactttgagt 240
 aaacattagc atggacttct gctttggggt atctagaacc caaagagccc gcaactctctc 300
 ttggcggggt ggatagggtt atcaagatgg ctcactttat accatgc 347

<210> 19267
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19267

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 ttatagcagc tactgcaatc tgaacgtgac caaacgaatc acttaacatt aatagcacgt 120
 tcaccacaaa gaaaattcga ccgttgcttc acacgcccc ctacattctt cattcaaatt 180
 tatactgct tggcatctgt gtttttacca gcatttcccc atagccttct gagatttacy 240
 aaatcattcc aaatgctctg cttttccatg gctacctcac caaaagaact tccgctctcy 300
 gtcacccgct gtabcattat ctccgcacca ggaacaacca gaattcaaca tccaacctat 360
 acaataaatt cctgggcaag cttctgtccc tgagaaactg gttccagaag acaac 415

<210> 19268

<211> 300
 <212> DNA
 <213> Glycine max

 <400> 19268

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 tatgaattaa tagttcaaata aataaaaatta aattgaagga aattaatata ttaagattca 120
 acgataaata ctttcaatgc attctagcct acttatttat taactttttt taattgataa 180
 taatatagtt tggtttaata tatacatggt tagtatgtaa ataactaatat ggtgtgacgt 240
 gcatatgatt catgaggcgg gataacatgc tgctttggga ttataacatt gtcgathaca 300
 ctgagtgtat gtgataaatt gagtatgtgt cgaattataa gatacaagcg tattgagatt 360
 ttgtatgcat cgagctgtga gctatgaact atactattac ac 400

<210> 19269
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19269

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 tatgaattaa tagttcaaata aataaaaatta aattgaagga aattaatata ttaagattca 120
 acgataaata ctttcaatgc attctagcct acttatttat taactttttt taattgataa 180
 taatatagtt tggtttaata tatacatggt tagtatgtaa ataactaatat ggtgtgacgt 240
 gcatatgatt catgaggcgg gataacatgc tgctttggga ttataacatt gtcgathaca 300
 ctgagtgtat gtgataaatt gagtatgtgt cgaattataa gatacaagcg tattgagatt 360
 ttgtatgcat cgagctgtga gctatgaact atactattac ac 402

<210> 19270
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19270

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 tcagcactgt tacagtgttg catattgaat ctatgcagaa tatcagtagc atatttttgc 120
 tgggtgagaa caattccttc actacagcct taaatttaata tccagggaaa tatgacaact 180

cacccagggtc agtcatgtca aactcatcca tcagattttt cttaaattca ttcacttttg 240
 ctteattggtt tccgtgcaat aacagatcat caacataaag gcatagcata ataatgtctt 300
 caacccacaga ctccacatac actccatgct tagacctaca tttcacanaa cccaaatttg 360
 tttttttt tttttttt tttttttt tttttttt

<210> 19271
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19271
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 ttatccttaa gatgaacaaa gatgaagctt aagctttggc ttcactccaa ttatataata 120
 tgccttcaat actcaccatt gactggattc ccccccgcta atccacaaaa atcaaatttg 180
 gatactgata aagcacagat gcaagagcac tgcctctgtc tgaaggacca tgcacatgaa 240
 actccttttc accaattctga aaagtcttgt ctgaactctc ttcacaccca aacgacacag 300
 gaacaacatt cagttcagca gctttcgcgc cattaatcac ggtctctccc att 353

<210> 19272
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19272
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 tttttactcg tatgtttgat tgagcctgta atatatacga acgctcgaaa ttgaagaccg 180
 aagctctgag caaattcaaa cgacaataac tttttactcg gatgtctgat tgagtcacct 240
 agtatatoga gacgctcgga ctggaatgac gaagctctga gcaaattcaa acgacaataa 300
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 ccttagctct gagcaaatc aaatgacaat aactttttac tcgg 404

<210> 19273
 <211> 410
 <212> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 19273

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ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct 120

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ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct 240

ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct 300

ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct 360

ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct ttggtgctct 410

<310> 19274

<311> 344

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 19274

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gtaattcgaa ctttaattat ctttaatttc gttcctaaag atagatcgcc aaatctgttg 120

ctaaactgcac attaatctgt taaagactca cagattccatg tgtccagtat ttccgggcaa 180

gatgtcctgg acatcgatat cgacattcgt ggatcctgca gcttcaattc ttcatttgac 240

attttatctt gccttgtgca ttgtgcaagc caatctgaat ccttgacata acgtggacat 300

cattgacgag aacttcagct ttccttcaat gtctaagtgc ttat 344

<310> 19275

<311> 399

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 19275

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acacatcttc tccctgaagt gggtctctct ctctctcttc ctctcttcatt ccccgggcat 180

tcattttcca agaagaaaag gaatccattg atgaagaaga tectacggtt acaagctcca 240
atggagctta caccatgtgg tatcaagagc atctccatct aggggatggt ccttgcgtcc 300
ctctattcttc tgtccggaga aatctctnta attacttggc ctccatctta ttctccatgt 360
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<210> 117
<211> 117
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19276

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ggagcacaat aggtgcgcatc aaatataatt taaaatgtac gctcaacatc ggttttcaat 120
aaaaaactga tgttaacaaa ttgatgagaa cgttaacatc ggttttattc aacaaaaccga 180
tgttaagggt gcttccttaa catcgatttt ttgaaaactg atattaacgt cgttcgttc 240
acatcagttc tcttcaaaaac cgatgttaag gaatacacat tatttanaat taccaccccc 300
atttacgtaa catgoggntt gtgaaaaacc gatgttaatc cgcgatggtt aaatctggtt 360
cttctagtag tgaaccatac catcaatatt tcagttgatt gataaaata 409

<210> 19277
<211> 232
<212> DNA
<213> Glycine max

<400> 19277

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tatgcactcg cctttttgaa catggccttg atggatccga cgccttattc aatatgcttt 120
gctctagagc gccgaatata atttttggat agattgatcc ccttcatatt gccacaacgg 180
atacccatat gtacaagctc tcagccatta tcagagagtt gctgtctcat ccaaatgate 240
tgtgcacata aacttccagc ataaatatat tccgttctg ca 282

<210> 19278
<211> 458
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19278

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ggttggatgt tttgtataaag ttttggcaaa gatttttagct aatagaatga aaaatgtact 240
tgataagggtg attgatccta gctaaagtgc tttcctagag gggagagaag ttctacataa 300
ttoggtgggtg gccaatgagg ttgaggatga agtaaaaagg ggaaaaaagt catgtttgtt 420
gctcaatgtn gcatttgaga aggccttcaa cttgatgt 458

<210> 19279

<211> 391

<212> DNA

<213> Glycine max

<400> 19279

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agcaagacat gaagagccaa tgggtgatac atggacagag atgaaaaaga tcatgaggaa 120
ggggtatgtg cgggctagtt actcaaggga cttgaaatcc aagctccaaa aactaaccga 180
aggggcacgg gggcgaggag tatttcaagg aaatggatgt gctcatgatt caagcaaata 240
ttgaagaaga tgaggaggtg actatggctc gattttcttaa tgggttgact aatgatatcc 300
gtgatattgt tgagctgcag gagtttggtg aaatggatga tttgcttccc atagcaatcc 360
aagtggagca acaattaaca aggaaggag t 391

<210> 19280

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19280

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agaacatgca gtttcagcaa aagaccagag cctccattca gagcttaacc aatcagatgg 360
gacaattggc taaccaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc 420
tctctttca tctcttaca tctcttctc tctcttca

<210> 19284
<211> 44
<212> DNA
<213> Glycine max

<400> 19233
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ccgaaattat tctcgtaaaa atattttatt ttaatatata atcaattcta ttagggetat 180
tcaatgcccc ttatacctgt aattaataat tgattattat aattgattgt cataattaaa 240
tgaaactgaa ttattaacaa aaaaaaataa aatataaaaa tattatataa ttgattcttt 300
taatatataa aaatattata taattgattg tttatatctt aatattattt taagttaact 360
atgttaaaac actaatatat atttgtaatt atagcatgtt gaagagtatg tatagctata 420
tatctttaat agagtttaac aaata 445

<210> 19284
<211> 451
<212> DNA
<213> Glycine max

<400> 19284
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tcgagatgtg gcttattacc tatagcaat ggaagtactc tttttacaag aggcgagaca 180
cacgctctga cccactttat ttgttttcca gtttatgctt ttgatgatat ctgttggtgt 240
ctatatatgc ttatgcaagt cacattatct cttttctgtg ttgttagtt ctattagaag 300
ggagatagaa tgaacaaaca caaaggagga acaaaaactaa taatgctgac tcttgggacc 360
tttaacacac ttctcattta aagtctccaa ttgtaataaa ctgggatata atctagaaac 420

451

aaaggaacca atcaact ag acctcaactt accactctatg agtccaggtt tagaattata	180
caataacatt ttttgcccaa ccacgaagtc ttttttaact atcatgctat catggaaact	190
ctggtctctc cctgcagaac ttggcattct cgtaggcttc tatgcggatt tcatctaaact	240
cactcagttg caaactttctt tctcaccag cttgatccat agagaagttg caagtcttca	300
ctgcccagta agctttgggc tcaattttca ctggaagatg acatgccttt ccaaagacaa	360
cccgataagg agacatttct atgggtgctc tataggcagt ccgatgtgcc caaagagcat	420
cataagcct	430

<400> 19236

1210	19287
1211	442
1212	DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19287

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atggaatag atggaatag atggaatag atggaatag atggaatag atggaatag 180
atggaatag atggaatag atggaatag atggaatag atggaatag atggaatag 240
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atggaatag atggaatag atggaatag atggaatag atggaatag atggaatag 360
atggaatag atggaatag atggaatag atggaatag atggaatag atggaatag 420
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<210> 19288

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19238

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gaatcttgta aacagcgaat tgttcgaag agtgaagctc ttgttcgag tgcttgatg 120
caagtggggt ccaatgcgag ggtgcggctg caatcggcaa ttgactcggc gatcgccct 180
ggggaacggt ggcgggaggt ggggtgcctg tancattcgg cgaggaagct ctgcggcgcg 240
ctgcggcggt cgtcagcat ttccgagaag tggcggatgg cctcggagta aagcccggtg 300
tcgagggggt cgaatgcggg ggcggggcgg cggaggagga acctaatgtg gcgagaggt 360
tcggccacgt tctcggagtc cgcgagaagg gtccggcggt gagttg 406
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<210> 19289

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19289

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catggtaatg ataaattggt agcacaatgt ctatgcaata ctgtttctaaa gagaaggaaa 120
tattagcatg tttaggcttc aagttaactg gtaaattcaa catcaagtct attagatctt 180
cgatcgacat gttgtgggtan caaaaacttg agaatgcttt tgagttttac atatatatga 240
...
...
taatttatatt aagagggttc aaaaatatga aacaaagaaac aatc 400

<210> 19290
<211> 419
<212> DNA
<213> Glycine max

<23> unsure at all n locations
<400> 19290

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tgatttattt gctataatat ataatacata catattttgc ctatcaaaaa aaaatccttg 120
actttctcag gcaagtotta aaagaaagta tcacacgggc taccttgttt taagaaatac 180
ctcaataaga aaaaccacac taagtcttac cttggcaaca gcataaacac caaaaagacc 240
cgtgtccttg taattggtgt tgaaagccat aatgctctca gcaacttcat taatgccaat 300
tcgctgtgct aactccgaac tgtttatagt caaaatgcac tcagttagta tcagggagag 360
aacttttctt tnttcaggaa ggggcgttca agtcacatac cccatgtggt ttcca 415

<210> 19291
<211> 370
<212> DNA
<213> Glycine max

<400> 19291

agctttgaat cgattacaca catactataa tcgattacca gaagagattt tcagaaaata 60
ttctcaattg gcacatcttt tcatttgggt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt ttttaagaaca aaaaggtcct atctctttaa 180
aaagcaaaat ccgtttatcc tcttacaat tcttggcca aaacaattgt gattcaataa 240
ggaattatct gagtgcctca atgtctcaat ctatctcttt caagagagat ttctctctct 300

tttttttttt atttgaaca gggattaaga gaccgagggg ctcttgttgt gaaagaatto 360
 taaaacacaaa 370

<210> 19292

<211> 399

<212> DNA

<213> Glycine max

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 ggttaaggat caaagatttg attaaattca atgaggctct gcttgcataa tgggggtggg 180
 agttggaaaa taatcagaat cagtgttggg ccagaattct attgtctaga tatgggtggtt 240
 ggagggattt gattctctgat aggaactgca gtttagactc tcttgggtgg aaagacctca 300
 aggttatctt caagcagcag cagagcaaca caatttgcaa ccaactgaag tggaaagctgc 360
 gatcgggaga taaaattagt tcttgggaagg ataagtggct acatcataat ctg 420

<210> 19293

<211> 399

<212> DNA

<213> Glycine max

<400> 19293

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 gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcttgaatct gacctccgtg 180
 tgaaaagtta tgaccatttg aattctcga gagcttccgt tgttcaattt cgagcgtctc 240
 gatacttat gcgctgaat cggacctctg agtgaaaagt tatgaccatt tgaataactc 300
 aagaacttcc attgttcaat tacgagcgtc tcaatatatt atgtgctga atcggacctc 360
 cgagtgtaaa gctatgacca ttggaattgc tcaagagct 399

<210> 19294

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19294

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 tggagagcct cctatattgt acatgacaat cttagagcag tcaatggcgt gtatgctagg 120
 cctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc
 cctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc
 gtttaagttac atctttgaaa agctagctct caccgtggca agtcttgcta tccagatttg 360
 atatagttca ngtcacccaa aaggcgat 388

<L10> 19295
 <L11> 410
 <L12> DNA
 <L13> Glycine max

<223> unsure at all n locations
 <400> 19195

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 gtaateattg ctcccatgc ctgaaaagaa tagacatttg tttaggttagc tattaagtga 120
 ttcattgtct cctctgaaga acctctcaa ctgctgcaat gtgttgtaaa agtttagccac 180
 ttgctcattc aatgatgtat gacccccctg caaacaatta cataagaaaa tcagaggagg 240
 tgtggctcac gaattattgt gctcacaga acgatatgta catttaatat gtgcttaatt 300
 tctcnaata ctcatgaata tgaatttgca tacaagggtta ctctctgttt cttctctaat 360
 gctgtctgct ccagatgcat agctagctcc tcttaatatgt ctcaaacccc 410

<210> 19196
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 19296
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 gtgctcagct gaacaaaact gcgcagaacc ctagttagct ctgtgcagtt cttctctcta 120
 tcacagccaa gatggctggc gtcaaccctc aagttgctgt caccatcccc aagcgttgta 180

acctgcctaa tggccctgtt gggtacaagt gtggacgtaa gtgcgattaa ttaataatta 240
 ccccttcttt atatatacaa aggagagtta ctcaagtgac actactttga taaagatgct 300
 ataaaaaaaa gattattcaa ttatcaaaat tgaaagaaat atacacatat gtatatatat 360
 <210> 19297

<211> 1
 <212> DNA
 <213> Glycine max

<400> 19297
 ttgcaagtc ttgcagcaca ctagcaaacg tagaattatt tggaaataca gacgactgct 60
 tcatcgaca aaacaactcc aaagctctcc tacttttata actctgagca taacgcgcta 120
 tcatgagaat ccaaggaata agatcatctt tcggcatttc ttcaaaaaac tgetgcgtct 180
 cagcaatctc tccagacttg gtaacaatt caagcagcac agtgccaaca taaagatccc 240
 tatcataaca cgttttcaaa gcacatccat gaacactttt cccaacctca aaattgttcg 300
 gtctaaaccc cataacctc atctggcaga caagtagcaa cgaatcttca tggcagtaat 360
 tctcagcata gcaagccatc atcccagtc aagataccat gcccttaca ca 412

<210> 19298
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 19298
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 ctgttctcca aattcctgaa aaatgcaaag atccaggtac attcagcata ccttgcatta 120
 tagggaatag taagtttgac aatgccatgc taaatttaag agcttctgtt agtgttatgc 180
 ctctgtctat tttaattct ctatctctag gtcccttcca gtcaactgat gtggtaatcc 240
 atttagctaa tagaagtgtt gctacacctg ttggtttcat agaagatgtc ttacttagag 300
 ttggtaact gattctccct gtgattctt atattttgaa tatggaagat ggattctctc 360
 aaggatcagt tcccatcatt ctaggcagac cctctatgaa aact 404

<210> 19299

atgagtttat gagcaactca agattcaaca gatgtgacat ggaccatttt tgctacgtta 120
 agaaatatac taataactat gttatccttg tegtgtatgt tgatgacatg ttgatcgcag 180
 gatctagtat ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa ttgaaatga 240
 agcagcagtt ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa ttgaaatga 300
 agcagcagtt ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa ttgaaatga 360
 agcagcagtt ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa ttgaaatga 420

<310> 19302
 <311> 245
 <312> DNA
 <313> Glycine max

<400> 19302
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 caacggaagc ctctgagaaa ttccaatggt cattaccttt aactcggagg ctctgatttac 120
 ggcataata tatcaagacg ctgcgaactg aacaacggaa gctctctaga aatccaaatg 180
 gtcataacct ttcaactcga ggttcgatt ccgtgcattga tatatccaca cgctccaaat 240
 tgaac 245

<310> 19303
 <311> 284
 <312> DNA
 <313> Glycine max

<400> 19303
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 agacttgtga ccaaagggtta ctcaaatag gaaggcatac attatattga aacttttgat 120
 ctgttgtct atctatagc aatatgcaat atactatcct ttgttgctca tcatggaatg 180
 atgcgggtat aatagacgt aaaaagcact ttccctaaty gaattatcaa gaagtttatg 240
 tggaaacac cctggggtgt gagaggacta ctaccctca tcat 284

<310> 19304
 <311> 381
 <312> DNA
 <313> Glycine max

<400> 19304

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ccctagctct gcaacaagtc ctagggaagt agaccggag atggacaaga aaatccgcag 120
tcttctctct ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct
ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct
ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct
agcttcagag gagatctctg caccacgggc accagaaat gctccaggtg acctcttga 180
cctgcaagaa gtccaatctg a 331

<210> 19305

<211> 353

<212> DNA

<213> Glycine max.

<400> 19305

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tcttctcctt cttggacaaa gtatggcagg ctggggggcaa ataaattttc ttccatcaa 120
accttggatg caactgtgat cttataccca tattaactag atcttgaccg gtattcaagc 180
catacttctg cttgccttga atgttaagga gcgttccaat cacactgtca caaacatttt 240
tctccacatg cataacatta ataccatgtc taaccgtcag atcaacacag tacggaagat 300
caaagaaaat ggaccttttc tttcatatgc aactctgact tttattcttt ttttgggt 358

<210> 19306

<211> 368

<212> DNA

<213> Glycine max

<400> 19306

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tttaccgcct aatacttttg acaaaatttc accacttgcg tcttttagcg tccaatactt 120
ttggctctga tgcactgacg tatagaaggg atcatatcat tcttttgtat tgggtgccat 180
cctctttctt tgattcctcg tccagttcaa gatgtgtact cgaatgcatt cgtgtcttca 240
ttctttttac atcaaccatt ttgaactttt ttgaagttc attcacatac ttggtttgat 300

gaactgaaat gccttttatct atctgcttca ttctcgcta acgcacaatt tacgtcccta 360
tcatactg 368

<210> 19307

<211> 11

<212> DNA

<213> Glycine max

atgggatgct ttgggtcaact tgagaacctc netggccttg aatcacaat ctggagctgt 60
cttaagggtt ttgtgggttg gcccctccc tgaccancat ataaccttt ggcttccat 120
ggagcaacct aaagcaattg agcagcctga agcttatgct tgaaatatct acaatagacc 180
ttctcaacct cagcagcaaa atcaaccaca gaagagcaat tatgaccttt ccagcaacag 240
atacaacccc tggatggagg aatcacccta accacagatg gtccagccct cagcaacaac 300
aacaggagcc tgcctcttcc ttccaaaatg 330

<210> 19308

<211> 352

<212> DNA

<213> Glycine max

<400> 19308

agtttgtatc atctactttc tacaaattga gggtttcac aaagatttgt attctacagg 60
ataccaatac caaggtgagg attggtacaa ttgaagtga ttggggcctc tatcaattca 120
ccccgaagc accaaaaaca cataccatat gttctatcat tacacacca aagtgtctaa 180
ccctccctgt aaatctatgg cattctcgta tgggtcacc cttctccgaa agattacaag 240
ccatgcacaa ataacctatcc ttctttaata ataacaagag ttctatttgt aatacttgc 300
attatgccaa acataagaaa ttacttttc atctaacaca tctcatgcat ta 352

<210> 19309

<211> 210

<212> DNA

<213> Glycine max

<400> 19309

agcttgaagt acaagaaatg agtacaaga gagggagagg gggggggcac caaatctata 60

ootcaaataa ggtetgaact ttgaagttaa atttttcaca tgatcaaagt tgaaaaatgc 120
 acacacacgg cttttattta tagcctaagt gtcacacaaa attggagggg aatctgaatt 180
 tttttcaaat ttacttgaat tgaattttta 240

<210> 19310
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19310
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 aaaaagacat ttactactaa agatgccaat ttcttttaca tggccatata ctctggcctt 120
 aaaaatgcca gtcctacata ccaacgactg atggactgag tcttttagaca atagatcgga 180
 ccaaacatcc aagtatatgt ggaagacatg gtctgtcaagt ctaaaagcat agcccaaac 240
 gtggcagacc tacaagaatt ctttggggaa ctctgcaaat atgacatgtg c 291

<210> 19311
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19311

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 atttttcagat gccacgcta naccatgag aagggagaag aaagaaaaag ggcattgtac 120
 tgtattgaaa tccatggaga tattctacca gaagaagcat gtgtatcaac taattaatca 180
 cctgtatccc attacttaga gcaccacca aaaggataag tattgaatca catacaccac 240
 tggaatcacg gatgacaaca gcattgaact taactctctc acccaaaacc aaccaagggt 300
 aaggaatggt ctggtaactg gcattcaatg aattctg 337

<210> 19312
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 19312

agcttgttagc atattgaaac ctcaatatat cgagaagctc gacattgaaa gaagaaaactc 60
 cgagcaaaatt gaaaagacaa taacttttca ttgggatgtc cgattgagta ccgcaatata 120
 ccgagctgat cgarattgga aacataagct ccgagcaaat tcaaaagaca ataactcttc 180
 ccaagcttctt cctgcttctt cctgcttctt cctgcttctt cctgcttctt cctgcttctt
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 cctgcttctt cctgcttctt cctgcttctt cctgcttctt cctgcttctt cctgcttctt

<210> 19313
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 19313
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 ggttgcctct gaattcaca ggccttctc accattagca tatcaccctg catagcttct 120
 tctcaagct ctcttccac ctcttcttct tcaatgattt cagattcact ggtgatttct 180
 ccctctgctt tcatgatcat ggtctctctg gttggacagt caaaagcaat atgtctcttg 240
 cctaagcatt tgaagcattt tatgtttctg gtaccgggtg tggatcatgg cgtacaatta 300
 tctttagctc tagctactga cattccat 328

<210> 19314
 <211> 350
 <212> DNA
 <213> Glycine max

<22> unsure at all n locations
 <400> 19314

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 catttgcctc caaagtttca tggccttgca cgtgaagacc cgcacaaaca ttgaaagaa 120
 ttccacattg ttgtctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcatcatt agagggagtg gcaaaggact ggtgttatta ccttgcctca 240
 aggtccatca ccagctggga tgaacttaag agagtattct tagaachaat ttccctgct 300
 ttccaggaca caaccatcan gaggatattt cactatttcc acaactcagt 350

<210> 19315
 <211> 415
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <400>

19315 19316 19317 19318 19319 19320 19321 19322 19323 19324

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 aagaaatcga ctcaaaagtgt atcaatctcg cacaggtgaag tgtttcctcc taattccgaa 240
 ccatagatat gtcattgactt gactttgcga attatttctt atcaaatcaa aaattacatg 300
 cgtgatcatg gatcaatagg gcttcccttg ggaatgggtt cttttgggtg tctcttcttt 360
 cggcttttgc gtgtatttgg ctttggatto tcttggcttt ttctttttct gttct 415

<210> 19316
 <211> 304
 <212> DNA
 <213> Glycine max

<214> unsure at all n locations
 <400> 19316

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 actctaaaaa tactctctct ccttgcacct atggactata attgggctga caagaatggg 120
 tcagacttct gacctcaccg gatcttgcct aagagttcgc tggtgactct caacataccc 180
 aacttaattgc tactacaggt gatctcacat gccaaaactca tgtctctaaa ctgctctaa 240
 aagcccaact ctctaacatc aaaccagaca ttgaaggat ttctactta cgcattacta 300
 ctac 304

<210> 19317
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19317

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gactaatagc attaatgggt tcaatgctaa tacgatatct ttattttata tagaaatata 120
gtattgtatt agcatgagaa aacataaata aaattaagac aaagattaaa acaacttaaa 180
aaagaaaaaa tacagataat ttaatttaac aaattatgtg agctaataat taatgttttt 240

<210> 19318
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19318

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ttgtcccttg ccttggtatg aaccagctc actatgcctt tttttccccc aaattctgtt 120
tcagtttgcc ttttccagc tactagttcc atcaacaacca ctccaaagct gtacacatca- 180
ctcttctcat tcactttgta cgtgtagcca tattctaac acattcctaac aaaatccata 240
cataataag catgattaaa gatcgcaat taacatacac aatacactac aactcatctc 300
ttatcaaaag acaggagcta ctactcaatg ctaaccagga gcaat 345

<210> 19319
<211> 287
<212> DNA
<213> Glycine max

<400> 19319

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aatttgtacc tgtcgcaagg gtttgtggtt tgtgtctctc tgtcgaccac catacagacc 120
tttgcccttc catgcagcaa cctgcagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcttcaa cctcagcaac aaaatcaaac acagcagagc aattatgacc 240
tttcagcaa cagatacaac cctggatgga cgaatcacc taacctc 287

<210> 19320
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 19320

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 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 14
 ttaactaat ttaaggcatt cacaatatta agatcttntc ttggcaatat atttgaaagc 300
 tc 302

<210> 19321
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19321

gggcctttcc aagtgggaagg ccttgaggga aagaggtatc cctatgttgt tgtggatgat 60
 ttctccagat ttacctgggt caactntatc agagagaaat cagacaccct ttgagtatcc 120
 aaagagttga gtctaagact tcaaagagaa naagactgtg tcatcaagag aattaggagt 180
 gaacatggca gagagtttga aaacagcaag tntactgaat tctgcacatc tgaaggcacc 240
 actcatgang tctctgcacc atcacaccac aac 273

<210> 19322
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 19322

ctcgtattgc atcaccattg gtggaggtct accaaaaact gcttgaaatg gtgtcatacc 60
 caagcttttg tgaaggaag tattatacca aaattgagcc caaggtagca tagtaaccac 120
 actcatagga tgatcaaata caaagcacc ttgatacatc tcaagggtct tattaagatt 180
 ctcagtcagg ccattggatt gagggtaata tgaagagctc atggccaatg ttgtgccttg 240
 agcttgaat aattg 255

aatccactat tgaggccctt cctcaacctt cattggaaga atattgacgc aaatgacaat 300
acagaacatg ccagttcagc atgagactat agccctc 337

<100> 19326

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atttttatct tgggtcttgc taggtgatac atcaattgaa aattatagtc ttccataaac 120
tccatgtaac atatttgtct tatgtacaaa caaatacttc caactcatga gatcagtga 180
cacatcaaac ttgtcttcag aaggataatg ttttcatttt ttcaaaacaa atatcatcac 240
aacaattctc gatcatgtgt aggttagtgt ctctcacaca ttttcaacta tcaagatgca 300
tatgtctataa ccttctctatg ttacacacca atatgcaact canaccttga taagagacat 360
cat 363

<210> 19327
<211> 371
<212> DNA
<213> Glycine max

<400> 19327

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tattttaatt ctaatgcaag ttacaagttc ccttaaaaaat gaactcttaa ataatgattc 180
aaataaaaaca atctgaatat aaatgcacaa caataataaa taaaagattt taagggaaga 240
gaaagtgaac actcagattt atactggttc ggccacacca ttgtgcttat gtctagtttc 300
taagcaaccc gcttgagagt ttactatct tgtaaaatcc ctatacaagt ttggaacaca 360
caaggacaat c 371

<210> 19328
<211> 392
<212> DNA

<213> Glycine max

<400> 19328

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ggaacacatg ggcacacacg ggcacacacg ggcacacacg ggcacacacg ggcacacacg

ggaacacatg ggcacacacg ggcacacacg ggcacacacg ggcacacacg ggcacacacg

ggaacacatg ggcacacacg ggcacacacg ggcacacacg ggcacacacg ggcacacacg 120

atcccataga agaatlagla aggcataaga ccattcagaa tatgcaattt ca 242

<210> 19329

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19329

guaattctga taatggggac agatgtctga ccggatgtca cgacttcaag cttcagaaca 60

tgacagattat atgtgtctgt atgaacagat taaacaagta aataacacaa gagaattggt 120

aaccacagttc ggtgcaacct cactacatc tngggctac caagccacgg aggaaatcca 180

ctaaaatagt gttagtcca agtctaacag ccactgttta caaccttctc acctaacac 240

taccctgga atctctacct aagagccact cttagatatg agaacctgc tcactccctc 300

tcaaccacac tccctgtgtg acaaataaat c 331

<210> 19330

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19330

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tacctaaagag atcatatcac caagcctctc caccatgat acaaataaat atgggaacaa 180

tggtctctcc tgacgaagcc ctctcacagg aataaaaacta ttttttgctc taactccatt 240

ccacatgata aaaaataaag tagatgacag agcatgtata atcacagaca taatgggtatt 300

atgaaaataa caaaaatnaa aaagagtttc ccaccaacaa aatcctagtt cacacgatca 360
tatgcct 367

<L10> 19331

<L11> 329

<L12> DNA

<L13> Glycine max

agcttgccctt gctcatgata tatttgangg acctatganc acctatgaatg ucaaatctct 60
tghgataaag gtagtgttgc catgttttca aagcccgtaa taatgcatac aactcctaaf 120
cataagttga atagttaagg gtaggaccac ttagcttttc actaaaataa gcaattggat 180
ggccttcttg catcaacaca gccccaatcc caacatttga agcatcacac tcaatttcaa 240
aagattattg aaagtttggc aacgcgagta tggaggcatt agttagctnt tgccttaagaa 300
cattgaaage ttcttcttgt ttctcttccc atttgaaccc aacatttttc ttgagcaett 360
c 361

<L10> 19332

<L11> 329

<L12> DNA

<L13> Glycine max

<L23> unsure at all n locations

<L40> 19332

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ggtaegtaat atgaagaatg ctttcataat tgcattaagt ggacttgcac gtttgtttgt 120
ttgttttget ttttaattcc agtcacaatt agcggctctt taatcttgaa tatcttatat 180
tgaangaata gcttgctttg taaaatcaca gataaaatan agggtaaatt tctggattgg 240
cctcgacgct tccacataat atttgaata gctcgaggac ttctgtatct tcatcaagat 300
tctcgattaa ggattatcca tagagatct 369

<L10> 19333

<L11> 310

<L12> DNA

<L13> Glycine max

<400> 19333

attatatgcc cttaatctgac tccgttgatt agtatgacaa tttgaattct ggagagctgc 60

cgttgtgcaa ttccgagcgt ctgatatat tatgcgcctg aattggactc tegtgtcata 120

ggtggtgctc tttggtgctc tttggtgctc tttggtgctc tttggtgctc tttggtgctc

ggtggtgctc tttggtgctc

<210> 19333

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19334

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cgcagatgtt cggggtagac ttctagaaa ctnttcttc ggtttccagc ttggatacca 120

taaggctgtt gtttagctct gctgcacaaa aaggttggat tatacatcac atggatgcta 180

aatcagcttc ttgaatggg cacttggag aagaaaattt tgtagagcag cttgaacgat 240

ttgtagtcca tggacaggag gagaaagtct atcggtgaa aaaggccttg tatggtttan 300

agcaagcccc aacgtcttgg tatggcagaa ttgatgcaca ttgataaac ttatgctttg 360

aaaaatgtct aagtgaagtt acc 383

<210> 19335

<211> 330

<212> DNA

<213> Glycine max

<400> 19335

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ttgtttaatc tgtaaaactt atgctcaatt ccaatcttga cataaccggc tggttgttca 120

ataaataactt gctccttcaa gtatccatgt aagaatgttg atttaacata tagttggcaa 180

atggggccatg aattttatgc cactaaagca atcatcaatc tgatcgtgtc atgtcttgc 240

acttgagaaa aaactttctg atagtraatc ccatattgtt gcttgtatcc ctccgccacc 300

aaacgtgcct tgtacttgtc aatttacc 330

atatctagat gattaggaat tgactttctat aatctttacg aaatagagta gtatctacct	120
ttccataatc ttgcttttaa accatadaag gcttttattaa gtttgaatac atgatgaggg	180
tagatagaan tcccaaacct agggggctgt tccacataga cttcttccctt gataagttga	240
ttggttcttc tcttctctct tctgttttgc tcttctcttc tcttctcttc tcttctcttc	300
ctcttctcttc tcttctcttc tcttctcttc tcttctcttc tcttctcttc tcttctcttc	360
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agcttgaatc	ggctctctcag	tgtgtataaa	gttatgagca	ttntaattgc	tgcacagctt	60
ccgttgttca	ttttcgagcg	tctctatatg	tgatgcgcct	taatctaact	tcogtgtgaa	120
aagttatgac	catttgaatt	tctcaagagc	ttcctttggt	caattttgag	cgtctcgatt	180
tytgatttgc	ctgaatcgga	catccgtgtc	aaatgttatg	accatttgaa	tttctaaaga	240
gcttctgttg	ttcaatttcg	agcctctoga	catatttatgc	gcccgaaatcg	ggcatttcgtg	300
tyataattta	tgyccatttg	aatttctcaa	gagtttccga	tgtttaattt	cgagcgtatc	360
gatatattat	aagccttg					377

agcttttttat	atattcggga	ctcaatcaga	ctgcgagaag	aagtattgtc	ctttgaattt	60
gctaacgctt	ctgattccat	ttcgagcgtc	togatatat	acaggactca	atcagacatc	120
cgagttataa	gttattgtcg	tttgaatttg	ctcagagctt	caacattcaa	tttcgagctg	180
ttcattatat	tactggactc	aaacagaca	ctgagtaana	agttattgtc	gtttgaatat	240
ctcgaagctt	tcattattcg	atttcgagca	tctcaatata	ttacgggact	caatcagaca	300

ttccagagtaaa aagttattgt cgcttgaatt tgcctcagagc ttcagtaatc catttcgagc 360
 gctcagatat attacgggac taatcagaca ttccagtaaa agttattgog tttgaattgt 420
 caaaacttca caatca 480

<400> 19341

tgaajctctg ataacacttg ttggacaagt ggctcagat ctcttaacaa cggggggggt 60
 gaattaaaat attcgaaact ctttcccttc attaaaaatc tatcttactt tttacttaag 120
 ttatgaatcc ctctaatgac aatcttgta tatattaatc cacatgaagc aacttgacta 180
 tgaatataaa gcactaatac ataaaggaga ttatcggaag agagaatgca aactcaatta 240
 tatacatggtt cggccacaca ettgctgcta cg 272

<210> 19342
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19342

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 ctccagtggt gagtgtagtt tcaagatatt tgcactctcc aactaagcaa caattatgtg 120
 caacaaggag ggttcttaag tatgttgag gttcaatcaa acttggagta ctttatgaga 180
 gtgtggataa ttccaagttg gttggctata gtgatagtga ttngtaggg ttcttagatg 240
 ataganagag tacatcagat tntgtattca gtcttggett gggagccatc acgtagagct 300
 ccaagaagca agacacagtt gctttatcat catctanagt ngaatatgta g 351

<210> 19343
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19343

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 aaatataaatt gtcaatgata ttntatatca ttntatgtta aaagagataa aaatntacat 120
 gtaaaatnaag atatttttta tttatnaata tttttataac gaatgttota aaatttagaga 180

<210> 19344
 <211> 337
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19344

agctntncac ttttatgtct gnatpaaagg cataatatat cgagaanggc ggaattgato 60
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 cgcataatat atcgagacat tggaaattga acaatggatg ctcttgagaa atacaaatgg 180
 tcaataacttt tcaactctgag gtccgattca gactcactat atatcaagac cctotaaaatt 240
 aaacaattgg agctctcgag aaattcatat ggtcataact attcaactgg acgatcaatt 300
 caagcgcato atatatagag acgcttgaat ttaacaa 337

<210> 19345
 <211> 347
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19345

agcttttttg attttttaac gacaataact nttaactcgg atgtgogaat aagtcocgta 60
 atatctcgag acgctcgtaa ttganaactg aagctctgag caaattcaaa cgacattaac 120
 atttgaactcg gatgtccgat tgggtccggt aggatatoga gacgctccan attcagaacg 180
 gaagctttga gaaaaatcta agcataataa ctttttaactc ggaatgtctga tccagacctn 240
 gtatatatca agatgcctga aattgacaac ggaagctcta agagaagtca taccacaata 300
 acttatgaact tggatgtccg attggtgccc gtaagatato gagatgc 347

<310> 19346
 <311> 390
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19346

gagagatg gggagatg gggagatg gggagatg gggagatg gggagatg
 tagaagatac acatattcat ggaaatcatt cttaaagaaa agacgaagga agaaatgagg 180
 attctcaaga taatggggct agaggaaata atgaacttcc aagagaatgg anagcctcaa 240
 agagatcates cctcgacaac attattggty atatatcana aggggtaaca actagacact 300
 ctcttaagaa ttatgcaat aatatggctt ttgtatctat aattgaaact aaaaatataa 360
 tagaagtcac agtacctgat acatggatca 390

<310> 19347
 <311> 413
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19347

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 ataggttggg cctcccagaa gagtatggag tcagcaccac ttttaacatt tetgatttaa 120
 ctccttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaacc 180
 ctcttcaagg ggaaggggat gatgcaatcc tccctatgaa gggaccaatc actagaacca 240
 tgagcaagag gctccaagaa gattgggcta gagctgctga agaaagcctt atggttctca 300
 tgaaccttat ggtagatttc tgagcccatg ggccaaagtt gggctcaatt atctttgtac 360
 atattagaact aggatgcat tatatttggg ccttgatatat anggctccat att 413

<310> 19348
 <311> 392
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19348

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 tataggaatg tcattatatt cacagacatc cattaccaca aagtctatcg aaaagataaa 120
 angtttactc tgaaccaaac atctttaatt actctgtatg gtctggtaat ggaggaatca 180
 tctgttttgc tctgttttgc tctgttttgc tctgttttgc tctgttttgc tctgttttgc
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<210> 19349
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 19349
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 agtttgagtt tgtatgagac ttggcccaca cyttcgatta tetgaaaagg cccaaagtat 120
 cttttggtta gttttgggtg tattgaacca actacgggtgc gttgcgggaa gggacgaagc 180
 ttaacgtaga cccactggcc tatgetgaag gtgacgtcac ggcgcttggt atccgcgaat 240
 ttcttcattg tctcttctgc cttttgaaaa cgatgttgta acttccgggtg gatctcttga 300
 cgcgagtgtg gcattg 315

<210> 19350
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19350

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 gttaaaagtt atgacctttt gaatatctcg agagcttcca ttgttcaatt tcgagcgtct 120
 caatatatta tgcgcctgaa tctgacctcc gtgtggaaaag ttatgaacct ttgaatttct 180
 cgacagcttc cattgttcaa tctcgagcgt ctcgatatat tatgcgcctg aatccgacct 240
 cccagtgtaaa agttatgacc atttgaattt ctcgagagct tccgttgttc aatttcgagg 300
 gtctcgatat attatgtgcc tgaatcggac atccgaatga aaagtatga ccattttaat 360
 tgcctcaagag ctccattga tcaattttgt acgtctcgat atattatgcy ccg 414

<210> 19351
 <211> 296
 <212> DNA
 <213> Glycine max

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 ccttggcttg caataaactt ccttttgggc aacaccaatc actatggcat caagaggccc 120
 aagacgggcc caatagagct caaactcgcc acagggaaaa ccccacatcc tgatgttggc 180
 caagttgcac acataaaatg tggtaacata aaggtatata caatatggtt cacattaagt 240
 gactccattg ggctcttttt taccgacaaa tgcttagacgt tagaatatta gttttt 296

<210> 19352
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19352

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 ggcgattcac tctgtggacag tggcaacaat gatttcttgg ctaccactgc acgagcagat 120
 gccctctctt atggcattga ctctccaaca cacagacca ctggacgctt ctctaacggc 180
 cttaacatcc ccgacataat cagtatgact ttgtgacatg ttagaaaatt agtagaatgg 240
 attagtgact aaatttagtg acgaaaaatt ggttattcct cactaactct aaaatcacta 300
 aatttagtga cattttttaa tataaaaaaa ttacatataa atttttcagt cactacattt 360
 aatttttata caagttataa gaatgtttgt ttgggttctag tctcccatct gcattgatg 419

<210> 19353
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19353

agcttctcta tatattatgc acatgatggt cataacttct cacacugatg ttctatattg 60

<210> 19356
 <211> 292
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 19356

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 gctttttctg gctttttctg gctttttctg gctttttctg gctttttctg 240
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<210> 19357
 <211> 412
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 19357

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 tacettatga ccagaagtgg tacatcaaac cacaaagaag gtcaagttaa tccaagaaaa 120
 gatgacgact gctcanagta tgcagaaaag ttatcatgat aagatgatga atgatcttga 180
 attcagagggt ggtgatcatg tattcttgag agtcactccc tggactgggg tttgtcgagc 240
 attgaaatcc cgaaaactaa cactctgctt tattgggtcca ttccaaatcc ttaagagaag 300
 ttgacctgtg gcataccaaa ttgcattacc ccgtcttttt ctatcttccac aatgtctatc 360
 atgntgtctc aactcataag tatatccctg atccatccca tgtgattgaa tt 412

<210> 19358
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19358

ataatgaaga agacccgagt aggaatgagt tgaatttate tatgaagcat daaatttagcc 60
 gcagccattg aatcagcttc aatccaaaag tcttttaaat taagctccca cgcctgctcc 120
 aaagcagtaa taagccccc aatctctact atcataagag aaaaacacac caatttctctg 180

gtaaaactcgt ttatccaatg gccattacca tcaagcatca ctccaccaca gctagccttc 240
 tggccaacat ctataacaga agcatcaaca ttgtacttaa aatagccac tgaggcaacc 300
 aaaaaaaaat cctatccgca caacaacatt gcccatg 360

<210> 19359
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 19359
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 tatagaactt actagctcat tatcaacact tggtttgaag cttttaaatg taaaaaacgc 180
 ttcgattctt tctgtataa tataaacgcc atgtttctct gaataatcat caatgaagca 240
 tattaagtat ctcttacctc cattagaaaa tgggtttatt ggaccacaaa taccagaaag 300
 caccagctcc aagacatcta tagctctcca tgactctctt ttgcgatact gagatc 366

<210> 19360
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19360

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 cagtggccaa ggatgcttgn gagatcctaa aaatcactca tgaaggaacc tccaaagtga 120
 agatgtccag attgcaacta ttggccacaa aattcgaaaa tctgaagatg aaggaggaag 180
 aatgcattca tgaattccac atgaacattc ttgaaattgc caatgcttgc actgctttgg 240
 gagagagaat gacagatgan aagctgggta aaaagatcct cagatccttg cccaagagat 300
 ttgacatgaa agtcaactga atagaggagg cccaagacat ttgcaacatg agagtagatg 360
 aactca 366

<210> 19361
 <211> 379
 <212> DNA

<213> Glycine max

<400> 19361

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ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg 120

ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg 180

gtagaattga ctcatgtgaa aactcaagat caagttgcgg atattatcac caagcctctc 360

aaatttgaag atttttgaa 379

<210> 19362

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19362

agctttgaat gatgcctaaa tagtggtgtg tgggtgcggga gacgggtttt ttcctctgcc 60

tgtannngng cgttaaatgat tttgggtttt gacttgtgag agctgttgtt ttgtgcctga 120

tgagtcttga acttatggaa atgtggagat tgtgttgcgt aatttatgac tgtatgttgt 180

cttttgttgt gataggaatc aacaatatgg gcagcgttct tttcacaagt actggcagta 240

aatgacgcga cggtaaagtt tgagatttgg gacacatcat gacaagagat gtagcatagc 300

ttggetccga tgtattacag aggtgttact gctgctatca ttgtctatga catcaatagc 360

tgggtatgat atctttgcat ttggatattg ttgaatacct atttaaattg 409

<210> 19363

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19363

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cggatatatc ctgacacccc tggaaatttg aatgttgaaa cctctcagcc aatttcaaca 120

acaataactt tttactcgga tgtcggattt agtgacgtaa tatatogtga cgtccaaatt 180
 tgaatgttga acctctgagc caattcaaac gacaataact ttgtactogg atgtctgatt 240
 gaatcccgta atatctcgag acgtctgaaa ttgaatgttg aacctctgag ccaattcaaa 300
 ggtctctctt tttctctt ggtctctt ggtctctt ggtctctt ggtctctt
 ggtctctt ggtctctt ggtctctt ggtctctt ggtctctt ggtctctt

<210> 19364
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 19364
 ctctgagctt caacattcaa ttccaagcgt ctcgatatat tacaagactc aatcagacat 60
 ccgaataaaa cgttattgac gtttgaattg gctctgaggt tcaaaaattca atttcgagcg 120
 tggcgttata ttacgggact caatcagaca tccgagtaag aagttattgt cgttgaatt 180
 ggtccatagc ttcaacattc aaattcgagc gtcccgatat attacggcac tgaatccgac 240
 atccgagtaa aacgttat 258

<210> 19365
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 19365
 ttccgagcgt ctcgatgtat taagagactc ttcttacatc cgagtaaaaa gttattgtcg 60
 ttgaatttg gttagagctt caacattgaa ttccaagcgt ctcgatatat taagggaactc 120
 aatcagacat ccaagtaaaa agttattgtc gtttgaatta ggtctcagcg tcaataattca 180
 atttcgagcg ttccaataga ttacgggact gaatcagaca tccgagcaaa acattattgt 240
 cgttgaattt agttcagacc ttccagaattc aatttcgacg gtctcgatat attacgggtc 300
 tcaatcagac atctgaggaa aaaagttatt gtcatttgaa tatgttgaga gtttcaacat 360
 tcaattttga ggtctcgat gtattacggg acttaatcag acattctgag taaaagttat 420
 421

<210> 19366

<211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19366

atgctggtg gggggtg gggggtg gggggtg gggggtg gggggtg 60
 gggggtg gggggtg gggggtg gggggtg gggggtg gggggtg 120
 gggggtg gggggtg gggggtg gggggtg gggggtg gggggtg 180
 tggtaatgca aaccacttag tcatatatca caaaccataa atatcatggtt bagtcataact 240
 aagcgaatat taaaagaaat actaagtgtt caaatgtcat aataatatag ccaaatacac 300
 gactagaaat caaaataacta ttaataatag taatgtctaa actgatgggtg gtgggtggagg 360
 taaatcaatg bagtcggcga tgatgggtgac atctctcttc 399

<210> 19367
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19367

agcttgatgt ggaactngat ctangaagcc acatgtgaca gagataaata cttataaactt 60
 attcaagtta gtgaaacttg gcggtttgcc aagaatcgga tgtaggttat gtggttaaga 120
 tgaactggta taaacatcat gtgtcttata ctgattttct ctttaaacta acttaagggtg 180
 tgaatttgat ctttgctttt gaaaaaaaact gatccaataa cgcttttgta gatatgaaca 240
 aatttgataa atattttataa ctctcagata gagtattaga acggaagact tcattagatg 300
 atgaactatt gattctcagc catctctggc aatgaatgaa cagttcaaaa tgcttntctt 360
 cggattctct gataaagcag tgtgtatata cagatgt 397

<210> 19368
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19368

tataatcgat taacatatata ctgggaatga ttattatttc atattttcan gaaatattct 60

caacagccac atcttttatat gtggetcttg aatggctatc aaaggccctat atatatgtga 120
 ottgaaaacac gaatctgctc agagtgtttc agaacagata ggtcttctcc tcttataaag 180
 tacaatcctt tctctctctt acaaatctct tctcaaatc acttctgatt caataaataa 240
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt

<210> 19369
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19369

agcttgattt anatcttgat gctctgggta tcttaataac tcagcttgc atgaatcna 60
 agtctacacc tctctgaaga gtctgtggc tatgttcttc tgcagatcac catatagatc 120
 tctgtctctc ttgcaacaa tctggagtta atgagcaacc tgaagctttt actgcaacaa 180
 tttataatag acctctcag cagcaaaacc aacaacagca gaataattat gaactctcaa 240
 gcaatagata caatccaggt tggaggaatc acctaaatct gatatggaca agtnctccac 300
 aacaacaaca gcttgtcctt cctttctaga atgtctgttg tccaagcaag ccatatgttc 360
 ctctctcaat ancatagcag cagtcacaac aaagacatca agcaacta 408

<210> 19370
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19370

tatattgcgg anacatctt ccaagcttag ggcattcatt nagggatttt aatgcttatt 60
 tttaatctga acaatagttg tctggggggc aacctctaca aaaaaaatat tttcaacatt 120
 gttattttta catcggtttt tgataaaaac gatgttaaca aatgagcggg gacatttttg 180
 taaataaact gatctgtta aaaaaaacct aatgttaacg tcaaatatt aacatccgtt 240
 attaaaaaac ccatgttaac gtaacaatgt taacatcgag ttttcaaaaa tcaatgttaa 300

cacgtgcacg ttaacacgca ttttacaaaa atcgatgttg aattttaatg ttgtgtttt 359

<210> 19371

<211> 410

tttctgaatg tttctgaatg tttctgaatg tttctgaatg tttctgaatg tttctgaatg
 aqacattttg cctaapaaag tcaagcttgc cataactcga ctgtgctttt tcttcaatgc 100
 ctatgttagc aaagactttg atcttgtcaa gttagatgag ctggacaaag aggcactat 140
 tatattgtgt cagttgaaga tgtagttttc acctgcttgc ttaaacctca tgggtcactt 240
 aattgttcat ctggtaagag aaatcaaag ttatgygcca attcatttgc attggatgta 300
 ccgggttgag cgatacatga agatcttaac aggggtatacc atgaatctac accattcata 360
 aqcatctatt gtggaaaggt acatcgcaaa agaagtcatt gaattatgtt 410

<310> 19372

<311> 407

<312> DNA

<313> Glycine max

<223> unsure at all n locations

<400> 19372

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 aagataatc atctaagacc tggattaata cgttgtgtct aaaagtaatc aagggattga 100
 atcagaaaac atataagcca accacaacct taaaaattgg cattgctcca atgtaaaac 140
 tgaactgcac tgcacaggcc tccgaattga tgcacttgc tagtctatcg ggtaggtcat 240
 atatgaacta ctttaacaa aggtaaaaag tatgtcaatc atattccact tccacaaaag 300
 actcagaagt cataccacta agtcaagtat ggaaacataa atatttcagt gatgcaaaag 360
 cggataaag aaacatgcat gattgcttta ataattaata cctgaac 407

<210> 19373

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19373

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agcttcacatct ttgattagtt ttattaactn tgaaggcatg aataacaata atccctcttg 60
caatcaaaat caagatctga aattgagata tcaacacatc ctgtgcaaaa tgaacatata 120
ctgtgctcctt cctgtgctcctt cctgtgctcctt cctgtgctcctt cctgtgctcctt 180
ctgtgctcctt cctgtgctcctt cctgtgctcctt cctgtgctcctt cctgtgctcctt 240
ctgtgctcctt cctgtgctcctt cctgtgctcctt cctgtgctcctt cctgtgctcctt 300
caacacaaata cgcaatggaa gtatatpacc cgggtctgaa ctgaagtttc aatatgtgaa 360
tagaagctat gattatatgc atgggtggtga tcccttacc a ggtctctgtg at 412

```

<210> 19374
 <211> 336
 <212> DNA
 <213> Glycine max

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<400> 19374
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taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
ttgcctttca tcaattaage gaggcagcac aagagccagc ctattagcca ggactttgga 180
cattattttg tagacacacc ctatgagaga gatgggtcta taatcattaa gagattgggg 240
gctattgggt ctgggggatga gggctatgaa cgatgcatta ctctctttgg ggaatctgac 300
attaatgaag aattcatcaa agaatatgat aaaagc 336

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<210> 19375
 <211> 236
 <212> DNA
 <213> Glycine max

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<400> 19375
tcataaagcc cccactgctc atcttttttt tgtcttctac tacagataac aaggtctgct 60
gcattccacg aaagttcttc tgcctcaatc ctctctctca tcttataagt tgaattgata 120
tctctctatg attggcgctc ctgcttgaca aagtgttcaa gcttgcttct tccaagtcaa 180
tgacctgtaa gcacattgg tacattttaa gcacctggaa gaataacagc agtata 236

```


agcctttggg tgttctcttt ttctttttct cangccctat cattctcaca taatggatnt 60
 taagtottat tagtgtcttt ttctaggata ctctacaaac cataaaggct ataagtgcct 120
 gttctactat gttcaaaatct tcatctccaa gcatgtggtg ttcaatgaaa caatctttcc 180
 gttctactat gttcaaaatct tcatctccaa gcatgtggtg ttcaatgaaa caatctttcc 240
 gttctactat gttcaaaatct tcatctccaa gcatgtggtg ttcaatgaaa caatctttcc 300
 gttctactat gttcaaaatct tcatctccaa gcatgtggtg ttcaatgaaa caatctttcc 360
 cattcagtea gtcccactt ctctatttc tnaaattec aaactcctgt tetgattcgt 420
 gtcttacaat cagtcagttc caattact 448

<210> 19379
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19379

cgactaatac acttgtaaaa acatagaaag ttagtntatt tatatgtata taccatcaat 60
 tgatatattg gtatatgtta ctcatcaaca acaacaacaa caacaacaac gccttatccc 120
 actatgtggg gtgggttaca tggatcaact tccgccataa tgtttatca agtaccatac 180
 ttctatccaa accattaatt tcgagatcct ttctgataac cctctttata ttacttttgg 240
 gtctatctct gcctcgaata gtctgacttc tatccatctg ggtactctc ctactacag 300
 attctaccgg tcttctctct acatgcccta accacctaag tctaatttcc accatcttct 360
 ctacaatagg cgtact 377

<210> 19380
 <211> 196
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19380

tatctctnta gctattcata tggtcataac gattcactcg gatgtctgat tcaagcgcct 60
 aatataicda gacuctcgat attgaacaaat ggaagctctt gagcaaatcc aatgttcata 120
 acttttaact cggaggtacg attcatgcgc ataatatato gagacgttcg aaattcacia 180

tggaactctt gaacaa

196

<210> 19381

<211> 355

<212> DNA

<213> Glycine max

<400> 19381

<401> 355

tttgttatga atttcgagtg tcttgatata ctctgggagga caatctgaca tctcgaglaaa
aaagttattga catttgaatn tgctcatagc attcgttggtc aattacgagc gtctagatat 120
attaaaggat tcattcggac atccgagtaa aaagttatta tctttttatt ttgctcagag 180
cttctgggttt caatttcgag catctcgata tattacagga ctcaatcgga tatccgagtc 240
aaaagttatt gtctgttggg attgctaaga gcttcggggt tcaattacga gcgtctcaat 300
cangctacggg acacaatccg acatccgagt aaaaagtatt gtctgtgtgaa ttact 355

<210> 19382

<211> 412

<212> DNA

<213> Glycine max

<400> 19382

agcttcagaa ttcattttcg cgcgtctcaa tagattacgg gactcaatca gacatccaat 60
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatggtctcg 120
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgcg 180
gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
gagtaaaaag ttatcgtcgt ttgaatttgg tcagagcttc aacattcagt ttagagcgtc 300
tcgatatatt acgggactca atcagacatc cgagtaataa gttattgtcg ttagaaatcc 360
tcagagcttc ggattcaatt tcgagcgtct tgatatatta cgggactcaa tc 412

<210> 19383

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19383

ctagaacaat catcatgtta gtctataaca atcaatacaa ataaccatc tattaaactt	240
gtttgacatt gtaaaattat taaaccaaaa ataagacctt aagacatac ttcatagttt	300
tatggtttgg tccaacaata attcttcatt agaaaatatg ttactactgt ttatatattata	360

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<211> 110
<212> DNA
<213> Glycine max

```

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agctntcagc catttcaaac gatcataact ttntactcgg atatctgatt gagtcccggtt    60
atataacgag agcctcgaaa ttgaatattg aagctctgaa ctagttcaaa cgacaataac    120
ttntactcgg gatgtctgat tgagtcocgt aatatatcaa gacgctcgaa attgaatggt    180
gacctctga gcatattcaa acgacaataa cttttttctc ggatgtttga ttgtgtcccg    240
taatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata    300
actttttaact cggatgtctg a                                     321

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<023>      unsure at all n locations
<400>      19337
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<210> 19388
 <211> 191
 <212> DNA
 <213> Glycine max

ttatgaaga ccaatgaatc caatgaatc caatgaatc caatgaatc caatgaatc caatgaatc
 gattatcatg caataaact caatgaatc cagagcaaa tctcaaat cagatcatgc 150
 acttcatctt g 191

<210> 19389
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 19389
 agctctctgtt ttcttttttcg agcatcttga tatatgacgg gacacaatcg gacatccgag 60
 caaaaagtta ttgtcatttg aattttgtga gagcttctgt attcattttt tagcatcaag 120
 aattattaaa tgactcaatc agacatccga gtaaatagtt attgtcgttt gaatttgctg 180
 acagcttctg tattcaattt cagagctctc gaattattaa atgactcaat cggacatccg 240
 agtcataagt tctcgtcgtt tgaatctgct cagagctttt attttcaatt tcgagcgtct 300
 cgatatatta tgggactgaa tcggacatcc gagtaaaaag ttatggctctt ttgaatttgc 360
 ttagagtcac tgggtctcaat ttgggtcgtc tcattatact atacgactca atcggact 418

<210> 19390
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19390
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 ttcttgacgc tagaaattga atacagaagc tctcaccaaa tttaaatgac aataactntt 120
 tactcagaag tctgatctgt tcccgtaata tatctagatg ctcaaaaattg aadacagaag 180
 ctctgagcaa attcaaacga caatagcttt tgactcggat atccgattga gtcatttaat 240

aattcgagac gctcaaaatt gaatacagaa gctctaagca aattcaaatg acaataaactn 300
 ttgaactogaa tctccgattg agtcattnta taattcgaga cgtcaaaaat njaatgcacg 300
 agttctcacc aactataaat gacataaact ttttactcag aatttactt 400

<210> 19391
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19391

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 gacottgatt nctccagggc ccacttggac cccatttcta ccaactacaa accctaagga 120
 aactatatta tctacacaaa aagtacactt ctctatattt gcctagagggg tgttttttct 140
 acggactgaa agaacttggc tgagatgtcc taagtgatea tetangetcc tactgtacac 240
 taaaatatca tcaaaagtaaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcttc aaaaagggtgc ttgggtgcatt agtgagtcga aaaggtatca ctaaccattc 360
 atacaaaaca aactcgggtct tgaaacngt tttcactcat cac 403

<210> 19392
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19392

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 atatatcgag acaactcgtaa ttgaaaacag aagttctgag aaaattcaca cgacaataac 120
 tttttattcg gatgtccgat tgagtatctt aatatatcga gacgtctgta attgaaaaca 180
 aaagcttgta gcaaatcga acgacaataa ctttttactc ggatgtccga ttgagtcctg 240
 taatatatcg agacgttagt aattgaaatt agaagctctg agcanattca aacgacaatt 300
 acttgtgaat cggatgtccg actgtgtccc gtagtatttc gagacgtctg atattgaaca 360
 ctgaagctct gagaaaaagc aaacgacaat aacattttac tctgatg 407

cgtaatatat cgagacgctc ggaattgatt atcgaagctc tgagcgaatt caaacygaaa 300
 taaotgttac tggatgggt gatagagtc cgtacta 337

<10> 19399

<20> unsure at all n locations
 19399

ctcagacata ttacggggac tcaatcagac attccgaata anaaagttaa ttngttgntn 60
 gaaatnttct gatagccttc aacatttcaa gtgttgagcc gttttgatat nattaagata 120
 ccttcaatcg gacattccga gtaaaaaagt tattggctgt tgaatttggt cagagcttcn 180
 gcattcaagt ccgagcctct cgatatacta cgggactcaa tcagacctcc gagtaaaagg 240
 ctattgtctg tgaatatgc tcaaaaacttc gacattctag tccgagcgtc tcgatataat 300
 aagggaacta atcagacata cgagttaaaa gttattgtcg ttggaatatg cttagagctt 360
 ctgtattcca ttgagcgctc tcgatataat ac 392

<210> 19399

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19399

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 gigaatagat aaaagtaect taccgngat ttgtattttt tatgaggtga attggtgttt 120
 ttacatttgg agttctatag tagcataggc atttctgaca cttttttctac ttgtganatg 180
 ccgagtattt gtatgctgca acttcttgca cnatgtcant gctcatttgg ctaagaaaga 240
 ttgtttggag gatacttcta gtgtgtgcaa taagggaag cacattagat ctattgttga 300
 tatatagata ctgcacaaag agcttgccaa agaatcccg tgttctcatg aacgaagtaa 360
 gcatatagat acaacgfatc atttcattag agagtgcatt accaagaaaa gaagtagaat 420
 tgaactcatg gaatactcaa gata 444

<210> 19400

<211> 339
 <112> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19400

ccagaagaag ccatatcaaa ttatgaactt ccaagagaat ggaaagcttc aagagatcat 240
 ccccttgaca acattattgg tgatatctca naaggggtaa caactagaca ttctcttaaa 300
 gatntatgca ataatatggc ttttgtgtct atggttgaac ctaaaaatat aaatgaagcc 360
 ataatagatg atcattggat agttgctat 339

<211> 19401
 <211> 443
 <112> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19401

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 atggaaaaag gccaaaggtgt ttacatgaca ttcagaggat gtggcggaac attgacattg 120
 tccggttagc cttgacattt atggcattac cttacatggg cgcagcaatc gctttccata 180
 gtgagctagt aataacctgc tctaaggata ttcttgcca taccatgcc attggcatgt 240
 gtcccanatg caccocctg gatttcctta atcatgtagt tgcctctctt ggcattctatg 300
 catcgcatga gggtcattgt gtcgtttcgt ttgtacacga tggtaaccact cacatagaaa 360
 ctaglatcca atctccgtaa cgtgcttttg gcattgtcgg aaatccctgg tggatattct 420
 ttgttctcga catactggct aat 443

<211> 19402
 <211> 395
 <112> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19402

tctgtccctg agaaactggg tcccagaaga caacagggga gtaatgaatg ctgaataccc 60
 taaccttgca acatgtccct aggaagtaga cacygagatg gacaagaaaa tccgcagtat 120
 tctgagtagc atttttgaat agacccctct tcttccctga ttcttgaaga aagatcttcc 180
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
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 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct
 tgaacctggaa gaagtccaat ctgatgaaga accca 395

<210> 19403
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19403

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 canaaggacc aatccacttt gacctcaact taccactcgt gagtccaagc ctagagttat 120
 acaataaaac ttctctgtcca accacgaagt ccttcttagc gatcaaaacta tcaaggaact 180
 tcttgggtctt ctctctgtag aatttggaa ttctcataggc ttctaaacgg atctcatcta 240
 actcacttag ttggaacttc ctttcccttc cagcttgatc aatagagaag ttgcaggtct 300
 ttacagccca gtaagctttg tgctctatct ctacaggaag atgacatgcc 350

<210> 19404
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19404

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 catctgctgc ccaagtttca tggctcttgc ngtgaatata ctcataagca tcttaaggag 120
 ttccatattg ttgttttca catgaagccc ccaaatgtcc aggaagatca tatcttttta 180
 aaggcttttc ctcatctct agagggagtg gcaaaagatt ggcctgtatta ccttgcctcc 240
 aggtccattt tcaagctggga tgaacttcag aggggtgtct ttgagaaatt ctcccttgc 300

tetangacca ctgccatcag aaaagacatt teangcatca ngcaacttag tggagagAAC 360
 ttgtatgagt actgngaaaag attca 385

<210>
 <211>
 <212>
 <213>

<210> 19406
 <211> 358

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 gbaactcaca ttcttctctt cgattatcat atcttccatt cttacatcat gagggaacaa 120
 caacaagatc aatcaactcaa tgaacgcagt ccttattact ttcacccggg agaaaatcca 180
 gggatagctn tgggttctcc gggtcttgat tcacccaatt ataattccatg gaggtagctt 240
 atgcttattg cattaagcac gaagaacaaa tatgagtttg cegatggttc tattcgaaga 300
 cctgcacacg atcatgaact tcattgtagct gggaagggtg caataatatg gtggcttatg 360
 gttggtcatt tagctctctt tcattagaaa aaataact 397

<210> 19406
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19406

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 tatattatgc gcttgaatca aacctccgag ttaaaagcta tgaccattng aatnctcga 180
 gagcttccgt tgttcaattt cgagcgtctc tatatgtgat gcgcctaaat cggacatccg 240
 aagtaaaagt tatatccatt tgaatttctc aagagcttcc gttgtcaatt taagcgtctc 300
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<210> 19407
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 19407

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ttcttcttct tttcttcttct tttcttcttct tttcttcttct tttcttcttct 180
ttcttcttct tttcttcttct tttcttcttct tttcttcttct tttcttcttct 240
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<210> 19408

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19408

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aaaagaattt tcataatgtc attcaatata aaattataat atactaacct ctgatgctat 180
ttataagaaa taagttgtaa tgtacactaa tagattcaga ggtagtatca taaatttata 240
aatttttata ataattatct taaaaatcat actaacctta atttttaatt gattgattga 300
tactgaccat gttaaagggtt ttcatgattt gatccaatca caatatgcaa tanatnggtt 360
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aagtatttat agacacaaca tagaagcttt actcaaat 458

<210> 19409

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19409

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gtctccaatg agattgcttc tctcagacaa aatggagtggt gcttctcatt ttctctccca 180

gaataatctt cataattggc tgcagaacct aaatggtcgy aaccatgata attacttctc 240
 aaacatcttc ccattcttga tgaacttttc attaaatcta gcttcacagaa aacctattat 300
 ataattcaat cttaagttaa tcaaat 360

<210> 19410
 <211> 391
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <40> 19410

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 tagaggctat agatttcaac atttgggaag ccatagaaat agygccttat attcccacca 180
 tgggtgctag aaatcacaca atagaaaagc ataggygaaga ttggagttag aaagaaagaa 240
 gaactagtaca atataactta aaagccaaaa acataattac atctgccttg ngaatggatg 300
 aatactntan ggtatcaaac tgtaaaagtg aaaatatatg tgggataccc tacaagtaac 360
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<210> 19411
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 19411

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 taaaatttga tataccccc acattcatca tatattttaa catttattaa attttaaaga 180
 tattgtaac ttaattcaat ttaatatgac tatgtctttt aaattatata ctatgatata 240
 tctcattaat aaagaacata gtgcttgatg tatataaatt atttgcatac ttaccttttc 300
 aattctaaaa gtgtgggtgtc ttgatctat tcatatttac tataatacca tacaatattt 360
 acgattaata atcaaaaacat ctatgattaa t 391

<210> 19412

<211> 390
 <212> DNA
 <213> Glycine max

<400> 19412

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31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

1 aaatctatg tctctctgagc aagatctctc attctctgct attctctctc tctctctc 15
 2 ctgctagca tctacttctg ttgctcaac ggaactcca tctctagca tctctctc 241
 3 aagatcaccc acactttcaa ccaagaaac acacttttc ctctctccat agagttgttg 300
 4 tctctctatg gtctcaata ttgtttcaa atgagtgaat tgcctctctc tagatttct 360
 5 atacaccaat gtgtcatcaa gataaacaac 390

<210> 19413
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19413

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 3 acctggattc aaaatcaact aaccaccaat acacacctca atagaatgga gttgttgaaa 180
 4 ggaagaacaa aacaatcatg gacatggtga ggtgcatgct gaatgccaaa caaatgccta 240
 5 aggagttttg ggtggaagca attgctaccg ctgtctacat tttagagtagg tgcccaacan 300
 6 aaagtgtgtg tgataagaca ccagagtaag cctggaatgg aaggagacca tcaatcagac 360
 7 acctcagatt tgttgggtgc atatcataca cacatgtttc aaac 404

<210> 19414
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19414

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<223> unsure at all n locations
 <400> 19419

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 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 gtaaaacaaa caacagcttg ctctctctctt ccaaaatgtt totggcccaa gcagaccata 360
 ctctctctca ccaatccaac aacagcaaca accccagata cagcccaaaa gtgagggccc 420
 tccacaacct tccctogaag aacttgtgag gcanatgaat atg 463

<110> 19420
 <111> 467
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 19420

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 cccaacttgc tccacaaagt cctccaaaaa tggcttaaga aattagagtc cctatcacta 180
 acaatgtctc ttggcaaac atggagtctc acaatctctt tgaaaaacaa atcagccaca 240
 tgggaagcat catcaacttt cttacatgga ataaaatgag ccattntaga aaacctatca 300
 acaaccacaa aaatggaatc tctaccattg cttgtttttg gcagccccaa aacaaaatcc 360
 atggataaat caatccaagg atacttcgga attggcaatg gagtatacaa tcatgaggc 420
 tttaccttag actttgcctt tttacataga atgcaatgtt cacaacaa 467

<110> 19421
 <111> 444
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 19421

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[illegible]

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gngggctctc	aacaatagct	tgttagttag	aaaaagctgt	tagagttagt	tttctttctg	180
gtgtaactaa	ctaaccaccc	ttttctctt	tccttcatat	ggtataaat	atcttaagaa	240
tcagtaata	aagacatgca	attatttgg	cattctcacgt	acacttgctg	cgtttctctc	300
tcctctatgg	ctgttgatcc	atttaatat	tgttcctg	tttccctgg	acgacgttnt	360
cgagtagaga	aatgatgcat	tt				382

ntgaagcaact	cacattgngt	tgaagcaatg	gaagaagatc	taatgtctat	tgagagaaac	60
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tacaaaanta	agttgaatcc	tagaggagaa	gtaacaaagt	ccatagccag	aetgggttga	180
aagggaattc	tacagaagga	aggtctgga	tatgatgaac	tatttcccc	tatttctand	240

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caannagggg ttgtgagaaa aggtagaaaa acagagggtt acaagctgca taaggctttt 420

<210> 19424
<211> 194
<212> DNA
<213> Glycine max

<238> unsure at all n locations
<400> 19424

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tttttaactca gaagtctgat tgtgtcccggt aatatatcta gatgtcctaaa attgaaaaca 180
gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatacga ttgagtcatt 240
taataattcg agacgtcan aattgaatac agaagctcta agcanattca aatgacaata 300
actnttgact cgaatgtccg attgagtcct tntataatct gagacgtctc anattgaatg 360
caggagctct caccannatt aatgacaat aactntntac tcagaagctt aatggtgtct 420
tgtaatttat cta 433

<210> 19425
<211> 397
<212> DNA
<213> Glycine max

<400> 19425

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ctgacagctc gagaattttc tttcttaact gcttcgaact gttaaagtcc atgttcctga 120
acttaacagt acaattaat tcttttaaagg aaattgagtc aagattcttt aaaacctta 180
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aatgaagtcc ttgcctctct gaagatcaat ggcgcgggaa tggagaataa ggaaggctta 300
ttggagatgc caatttaacg agaagatgag tctcgaacaa gctcaccacc ataggaagtc 360

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397

<210> 19426

<211> 456

<212> DNA

<213> Glycine max

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gggttcagg aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 160
tctccatatt gctgagtcct tcataaaaat attggagaag aagctgtctt gaaatctgat 240
gggtgggggca actggacat agtttcttaa atctctctca gtactcatac aggtctcttc 300
cactaagttg tctaatacct gagatctctt tcttgatggc tgtggctctg gaagcagggc 360
aaattgtttc taagaatact ctcttaaggt catcccagct cgtgatggac ctggagagaa 420
ggtaatacaa ccagtccttt gccactccct ctaatg 456

<210> 19427

<211> 407

<212> DNA

<213> Glycine max

<400> 19427

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cttctctgaa cttycaaac aacaatctaa gtgggtccat accaacatcc attgacaact 180
tgaaatttct cttygaactc caactcaggg aaaacaaact aagtgggtgtg ataccaagca 240
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ccaacaattt tggtaatttg gatagcctgc aagtcttggc tctctcaaat aacaaatttc 360
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<210> 19428

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19428

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                                     *
                                     *
                                     *
tctctctt  tctctctt  tctctctt  tctctctt  tctctctt  tctctctt  tctctctt
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gaaagaagct gctatgttca tgtttcatgc caaagaactt cctataatc tctgggtctga   420
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<210> 19429
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19429

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tcttgaagca gcagtatcca tctgatcaat cgtggcttgg aatcaacttt gcataacaaa   180
tattttattg ctgctgtgat agagttaaac actatctttg atcccaccag ataagatcaa   240
aatttctcaa gtgcaaacac aattgtcagt aattctttct caatgggtggc atagttaatc   300
tgagcatcat tcaaaactct gctagcgtaa tagatgcgat gaaacattct gctcttctgc   360
tgccccagca cagcacctac tgcataatca gttgcatcac acatcaattc aaactcttgt   420
cgctagtctg gtgctgtaat cacaag                                     446

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<210> 19430
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 19430

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 tagagatccc tagtttccca ttctccctc agctggcgaa tcaccaagga tgagtctctg 240

<210> 19431
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19431

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 catatcgatg acatgatcct gtcaggacca aattctagac tagggcaagg tagtgagacc 180
 caattcaatc tatgtctcaa ttgaggatcc ttggcaactat gaaatattat ctgggcttat 240
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 tggaagatac atgtttattg acatgcaaac cgatcaatct atcgatggat ccagactag 360
 ataacttactg cctgataaat caatcttgat gat 393

<210> 19432
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19432

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 attcaggcgc ataatatctc gagacgttcg aaattgaaca atggaagctc tcgagcaatt 180
 caaatggtea taacttttca ctgggaggtc cgattcagga acataatata tcgagacgtt 240
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 tcnatctcan ggcataata tctcgagacg ctcgaaattg aacaatggaa gctctttacg 360

aattcaaatg gtcataactt ttcactcgga tgtccgattc acgcacataa tatatcgaga 420
 cgctggcaat tgaacaacgg aacgtctoga gaaat 455

<210> 19433

<211> 4
 <212> DNA
 <213> Glycine max

<400> 19433
 19433

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 ttttcataac atataatgtt ttatttggca tagcttaact tgaaaataga totattaaga 180
 caatgaataa aataataaaa ctgtcaagtt gtcaactgat taaagaatag tatattaagt 240
 cacagtaaaa aaatagtata gtatagtagt agctttcaag tttttaacta aaatattata 300
 ttttaataat taatataaac gtattaagtg agtaaatgtt cacgggtatg ttgtacata 360
 ataatatata ttacaaatac atgtgtacca gacgtcttta gctggcatat tgatttaata 420
 ttgcacatc acaagcatag agcataaact agcattatgg ttctctagat gatgt 475

<210> 19434
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 19434

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 ttgaagacta aactataaat aaaaacatta ttccattgta caaagcatat cttttcttggc 180
 cttctggcta agatcaagtg tagcatctgt tcttatcagt tgaatatttg atatgtggac 240
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<210> 19435
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

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 ggaatctgt ctatttgctt ttacaacatt ccttggccaa attactgttg atccaataac 240

<210> 19438
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 19438
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 agatgtttgt accataactc atacattgac aatgtttata ttattttat tttactaate 120
 acatttacia cagaatgctt tgaattgaaa ttgatatat agaataaaaa cattctttta 180
 taatagaatt ttaattcaat aaaatgtatt ttggaaatga tatcattaca taagactaaa 240
 attagttaaa atttatttat attttaatct atattgagat cgtttatctt tgcctcggaa 300
 ggagtcctat ggaaggaaga tatagaaacg aatttacttt gagattgaag aaatgttgat 360
 tctgatttga tgcctagtaga tattagttca ctgatgtcta gattctatto taagtga 417

<210> 19439
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19439

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 ggaacggcct agttactcaa gggatttgaa atttaagctt caaaaaactaa ccacccaagg 180
 caacaatggg gttagaggat atttcaagga aatggatgtg ctcatgatto aagcaaatga 240
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 taatatgttg gagctgttgg agtttgttga aatgaatgat ttgcttcaca aagcaatcca 360

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 ttctagttgg aaagac 436

<223> unsure at all n locations
 <400> 19441

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 gtttcatgag agagtcaaag atcaaattga caggaaaaat aaaagctatg cttaacaagc 240
 caacaaaggg agaaagaagg ttgtcttcga acctggagat tnggtttggg tgcacatgag 300
 anaagaaagg ttctatggaac anagganac atagcttcaa ccaaggggag aatggaccat 360
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<210> 19441
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19441

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 gaagaacata ttgcagtagt agggactact agtaacaata agtttttcaa gagaaaagct 180
 cttagatgagg gttcaactgt atcaagcaag tctggagacct agcatgatca cagattcacc 240
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 caaatagtgt tgggtgttgt gtgcatacna tgaataaata tttaacctat gcatacattn 360
 tanaacgcac tataagcaac aaagagttta tacacacaag cacataagac aaataaaggg 420
 aaaccaacaa agagaaaaat cagcataaaa cattgcacaa gaattaaat 469

<210> 19442
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

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 aacagatac ccttaagggt ttctggagtg cccatgtaag tcttcataca ctctgagag 20
 tggaaaacat cccacatctt aatcttggta tccatgccag cagagagaat caaatggcca 240
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 aatctctcgg gcatataaca atgataatta ctgcctttg catccttgng aggcgcgata 360
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<210> 19443
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19443

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 gggaaaattc ctacgttac agaattggtc tataacaccg ctgttccattc tggcacagga 180
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 gctctccata agaagctttt caaagctcan actgctgtga aggtgcaagc tgacaaaaaa 360
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 caaacgtcag ttccaggat gacatata 448

<210> 19444
 <211> 493
 <212> DNA
 <213> Glycine max

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 ctttccaacc gcatctgtga aactaaccag atcatctggt gcaaaaaact caagcaaaagc 240
 tttcttctga tttcttctga tttcttctga tttcttctga tttcttctga tttcttctga
 tttcttctga tttcttctga tttcttctga tttcttctga tttcttctga tttcttctga
 tttcttctga tttcttctga tttcttctga tttcttctga tttcttctga tttcttctga

<210> 19447
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19447

tgttgcacac atctacaaca gactctctca acctcatcaa caaaatcagc cacaacataa 260
 taattatgac ctctccagca acaggtacaa tcccggtatgg aggaatcacc ccaaccttag 320
 atggttogaat ccttcacaac agcagcaaca acaacaacct tattttcaaa atgctgctgg 380
 cccaagaaca ccatacgttc ctccaccaat ccagcaacaa caaaaacagc aacagcccca 240
 gaaacaaaaa acaattgagg cccctccgca accttccctt gaagatcttg tgaggcaaat 300
 gaattatgaa aacatgcagt ttccacaaga gaccagagcc tncattcaga gcttaactaa 360
 tcagatggga cagttggcta cacagttaaa tcaacaacag tcttagaatt ctgatagaat 420
 accttctcaa tctgtccaaa atcacanaaa tgtgagtgcg aatacattg 469

<210> 19448
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19448

gcttgccatg ttaaaggaga aagcatcaca tctttttaag gctganntta ttcagttctt 60
 tctcttcatt tatgtgctta agcaacggaa gctgaaccaa tataacctgc gatattaaca 120
 aaccaagcct cacaataaaa aaaaaggccc aaaacaaaaa agtgtaatcg atattaaaaa 180
 taacacatgc atgaattgaa aaagcatgig ttcaggcatg taaagtaatt gaggcacaaa 240

tcttatcacc taaaattcct tggccaaaac atttgtgatt caataaggaa ttatttgagt 420
 gcttcattgt asaattctac tctntcaaga gagatntctt cttctctctt tctta 475

<210> 19451

<211> 4
 <212> 2
 <213> Glycine max

<223> unsure at all n locations
 <400> 19451

tctatagaag gttcattcct aatttctcta caattgcttc accctctaat gagctgggtga 60
 agaagaatgt ggcatttacc ttgggtgaaa aacaagagca agcctttgct ttgtcacaag 120
 aaaagcttac taaggcaact gtcttagctc ttccttgagt ttctaaaaact ttggaactag 180
 aatgtgatgc ctctggagtt ggagttggag ttgtattgta acaaggtgga caccctatta 240
 cttatttttag tgaaaaaact catggtgcca cctcaacca cccacatat gataaaatgc 300
 tttatgcctt aataagagcc atccaaaact gggaacatta cctttgttcc aaggaattnt 360
 gtattcatag tgatcatcaa tcacttaagt a 391

<210> 19452

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19452

tcaagcttag ctacacacca cctctccta actaagctca cctttttgag aagcncctt 60
 atgaagatcc ctaaaagtag ttgagcttag ctacacatac ctctcttaata gctaagctca 120
 cctccttgag atgagaagct agagcttagc tacacacccc ctataatagc taagctcacc 180
 cccatgacaa anaacatgaa aatacaaaaa aaagtcctta ctacaaagac tacttaaaat 240
 gcccggaaat acaaggctaa aacctatac tactagaatg gccaaaatac aagggccana 300
 cgaaggaaat acctattcta atattacaa agataagcgg gctcatactt agcccatagg 360
 ctcgaaatct accttaaggc tcatgagaac cctaggacct tcccttggat ctctagccca 420
 atctaacttg agtctcttac ccaatgcctt tggggagtag gattgcacca ctctctctcg 480
 tagcttctat g 491

<210> 19453
 <211> 476
 <212> DNA
 <213> Glycine max

1. 1000 bp
 2. 1000 bp

1. 1000 bp 2. 1000 bp 3. 1000 bp 4. 1000 bp 5. 1000 bp 6. 1000 bp 7. 1000 bp 8. 1000 bp 9. 1000 bp 10. 1000 bp

ctatctctta cctctctctt ctctctctta ctctctctta ctctctctta ctctctctta ctctctctta ctctctctta ctctctctta ctctctctta
 atctatctta ctctctctt aagttatgaa ttcccttaga gacaatcttc ttaaataatta 180
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
 aagagaaaat gcaaaactcag ttgtatactg gttcggccac acccttgtgc ctacgtccag 300
 tccccagca acccgcttga gagttccact aacttgtaaa ttctttttac aagttctaaa 360
 cacacaaggy acaacccttc tttgtgttag agatttctac aacaagagac tcacagtctc 420
 ttaatccctt agagaatgag aagaagaaga ggaacaaatc totcttgaaa gagatg 476

<210> 19454
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19454

tgaccaatcc anatgaacga ggaactcctt caatactggt aaaaggaaat tottgatttg 60
 cttgataaag gtttaatecg gaaaagcaaa agcccggtgg cctgtgcggc tttttatgtc 120
 aacaaacatt ctgagcttga gcgtggaaca ccccgtttag tcataaatta caaaccactg 180
 aaccaagcat tacaatgaat tatgtacctt attccaagca aaaaggattt acttaacaga 240
 ttaaattctg caaagatatt ttctaaattt gacatgaaat ctggattttg gcaatccaaa 300
 tccaagagtc agataggtac aaaacagtgt ttattgtact ttccgggcaa tacgaatgga 360
 atgtgatgac attcggacta aagaatgccc ctccagagtt tcanacaatt atgaatgata 420
 ttntaatec ctattcaca ttgtcattg totacataga tgatgtgtta atcttttccc 480
 acaacattga 490

<210> 19455

<223> unsure at all n locations
 <400> 19457

```

ntgatgggtgt tgagaagaaa tcacatgttt gtcatcatca aaaaggggga ttttgtgaat   60
glatgtatad atgattntga tgatgttaaa agaagaatca aagaagggtc attntggttc   120
atgattatc atgattatc atgattatc atgattatc atgattatc atgattatc atgattatc
atgattatc atgattatc atgattatc atgattatc atgattatc atgattatc atgattatc
atgattatc atgattatc atgattatc atgattatc atgattatc atgattatc atgattatc
gattaccaga gactctgaac attgngaatt caaatntaa atgaagggtc acaactgttc   360
aagaaaaaca atttgtgaat cgattacact aattctgtaa tcgattaoca gagaggattn   420
tcaagggaata tcttcaacag tcacatotta tcat                                     454

```

<210> 19458
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19458

```

tgatgactat ggtgtgttgt gggacttctc caccaatgta gatctttaat tnttggccct   60
tacctaaacta gccacgatct ttggatttgt cttctatctt tatagctcca tagggcttaa   120
cgtctttaat agtaaggggg ccactccttc tcaattgtaa ttntcgagaa acaactttaa   180
tcttgagttg tagagcaata cttgttgtcc aggctaaat tctttgagga ggatattttt   240
ttcataatac ctcttggttc tttctttgta gagcttggat gattcgtatg ccttgagtca   300
aagttgagaa acctcatggc tcaatgaget tttatttcta ataccactgg taggtggcat   360
tctttnttgt acaccatttg aaatangaa aggccaatgg gtgttttgaa ggttgttcta   420
tatgtcaaaa ggcaatcctc aa                                             442

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<210> 19459
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19459

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gggatattnt ntgaaaaatg gtatataaaa aacgatttgt ttntaaga gatgaaagtc   60

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aatttanaaa aaaacagaat taaaaacact attaatccctt aaaatttcaa ttgataago 120
aaatttattg totgaacaag ttggaattaa cattctctat ttgaaaaatt atactcaaaa 180
tattcttact gagatttga aaatataaat ttattatataa tghtatataa aaaattaaaa 240
tattcttact gagatttga aaatataaat ttattatataa tghtatataa aaaattaaaa 300
tattcttact gagatttga aaatataaat ttattatataa tghtatataa aaaattaaaa 360
tattcttact gagatttga aaatataaat ttattatataa tghtatataa aaaattaaaa 420
aaataatnta taataataaa tacttaagaa tgcattaata ctaattaagt tag 473

<210> 19460
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19460

tatgactcgg tcaattgaga attcttgatt tacatgtttg gaagattgag attcaatgag 60
atatgggtca aatggattaa ggggtgcttg atgtctacta nggtatcaat ctttgттаат 120
ggaagcccaa tgttggaaatt tatggtatca aaaggattga gacaaggaga tccttttagat 180
cccttcttgt tcaatgtggt tgtggaaggc ttatgtgggt tgatgaggaa agcattagac 240
aaaaaattag attctagttt caatgtgggg aacaaaggag tgaagataaa tctcttcaa 300
taggaggaca acacaatctt catgggagag gctaccttgg ataatgtcct aaccatcaaa 360
agcattctnt gatgc 375

<210> 19461
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19461

tgctaacca tggaagctcc taatatctct tacaattttt cgggtgggccc attcttggat 60
ggccttgatt ttctcatttc taccactac aaaaactaag aaaactatat tatctacaca 120
aaaggtaaac ttctctatat ttgcctagag ggtgttttct caaaggactg aaagaacttg 180
cccgagatgt cctaagtgat catctangct cctactctac actaaaatat catcaaaaata 240

aacaactaca aatctacctt agatccctta agacatgggtg cataagcctc ataaaggtgc 300

ttgggtgcatt agtgagccca aaaggcatcc ctagccattc atacaaaacca naattgggtct 340

tpaaaggggn ttttactca tcaacctttt tcaatcgtat ttgggtgataa ccacttttaa 400

<310> 19462
<311> 477
<312> DNA
<313> Glycine max

<323> unsure at all n locations

<400> 19462

attcttttga cattgttcaa gttcctcttg catggetgat gtttctctta tggaggggac 60

gcataactag aaacacggct aggagactct tgaagatta gaactagggat gcagaagaag 120

gccttagggg tctcatgagc cttaggatag attctgggac catggaactaa gtatgagcct 180

aettatcttt gtacaaatta gattatgggg tattgctagg ggcacccagc aacattactg 240

gtgcacccaa caattnttta gaattcccaa aataccatc accgtatctt tttctacaaa 300

aagttgggtt atttcattnt tgtttacatt gttgctttct ttgtttctcc atggtagtgc 360

tgtggggtat ttggagcttt gagagagttt anggtgttgt tcgcaatcgg caagtgtacc 420

agatgcacac agtagtataa aatggtaaga atdgagtatc gaactctcgg ngaacttg 478

<310> 19463
<311> 477
<312> DNA
<313> Glycine max

<323> unsure at all n locations

<400> 19463

tctctttgaa cctttaccac ccactctgtc atcatgcga tacttaagaa ggccaacagg 60

tttagcttcc tcaatgtact ctgaacaaaa ttcaatggct tcttcttgcaa tgtacctctc 120

aacaatagat gcttctggat gatatagatt ctctgtatac ccttttaaga tcttcatgta 180

tgcctcanac ggttacatcc accgcacata aacaggacaa caacatttga ttgtgtgac 240

cagatgcata atcaagtcaa tcatgatgtc aaagaaagaa dggggaaaaat acatctctaa 300

ctggcacagt ataattgggg cctcattntc caactcatca aacttcaag gatcaacgac 360

tntgctacat atggcatgga agaaaaagca cagggcgagtt atggctaacc tgaacttttgt 420
 tggcaagatg tctcgtataa ccacggctaa caattgggtgc atgagcatgt ggtaacc 477

<200> unsure at all n locations
 <411> 19464

tjanattgac aacggaagct gtccgaganat tcanatgttc ataatntng tcaagaaggt 60
 cagattcagg cacataatat atcgagagcg tngaaattaa ataacggaag ctgtccgagaa 120
 attcaaatgc tcattacttt tcactcggag gtccgagtcg ggcccataat atatcgagat 180
 gtcgaaaatt gaacaacgga agctctcag agattcaaat ggccataact ttgacacgg 240
 aggtcagctt cagggcgata atataattgag acgtccgaaa ttgaacaaca gaagctctcg 300
 agaaattcaa atggtcataa ctcttgaccg gaaagtcaga ttcaggcgca taatatatcg 360
 agaagctcga aattgagcaa cggaagctct cgagaaattc acatagccat aactnttcac 420
 tcggtatgta gattcaagcg cataatatat c 451

<210> 19465
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19465

ntagctntgt ccncaaggct tcatgtagac tggctcttta tcgcgaagtg aacctcggat 60
 cccgtgcaga tacaatacta gaaggaattc catgcaacct tattacttcc ttgatgtaca 120
 actccactag cttctccatt ctatacttca tttccactgg gataaaatga gcagatttgg 180
 tgaatcgatc tactataacc cacacagcat catgtccacg actagtcttg ggtaaaactag 240
 atacaaaatc catagatatg ctctccatt tccattcttg aatttccaat ggcttcaatt 300
 ctcttgatgg tccgtgggtgc tcaaccttag ccttttgaca tgtcaaacat ctgtctacat 360
 attcagctac atctttcttc atcccatccc accaaaaact tctcttcaaa ttttggacat 420
 cttagtcatc cctggatgga aact 444

<210> 19466
 <211> 406
 <212> DNA
 <213> Glycine max

gacatctc tagttgtcat tgcctgaatg tcaaaccttc taatattaac aagatgatt 120
 ataattatag catctttctg ataaaaacca ccacttcttc cacatctaat actatcaaaa 180
 tcaataactc ctccacactt ataactcaatc gactttctcat ctcccttatt gtcattgtca 240
 tcatcttcaa ctctatctct tccatcttca tgcataaata cattaccata cgcctcacc 300
 aacacataaa aggaagctcc caaatgcgcg aataaccctt ctccctactat tatgnccttc 360
 aaaccttaca aaataacaca ttccaaaaca taaataaata catagc 406

<210> 19467
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 19467
 agctttcacc acttatctcg caccagcatg attggagtag cgaccttaag tgtaatttg 60
 tgattaggta tccctgatgt tttcaatgag tttagaaatt tacgtgtcag taatccgaaa 120
 gtaggattga gtagttcacc ttatttatca atgttatcag tgctacaata ctctttttcg 180
 tcattgggta tcaatgataa gacaataatt tattttgtca acaatatctt ttttagaggc 240
 aagaacaact cttttttgca agtaatctgc gttgctatag ttatgtgtca agttgggata 300
 tgttgcatca acaattgctt gcataggatc agtatagtc tttataagga actcatctgg 360
 gatg 364

<210> 19468
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19468

ctaagcttaa catbagacca cttccagggt gctggaacta cttttatgga cttgatggng 60
 cccatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggatgatttc 120
 tccagattta cctgggtcaa ctttatcaga gagaatcag acaccttga agtattcaaa 180
 cctggttctt cctttttttt cttttttttt cttttttttt cttttttttt cttttttttt 240
 cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 300
 cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt cttttttttt 360
 aatttgcagg aagttgctan ggtcatgctt catgccanag aatttcccta taattctctg 420
 gctgaagcca tgaacacagc atgctatatn cacaacagag tcacac 466

<210> 19469
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19469

actcagcttt atcctggctt ctatgggtgt gagcttgtct ttactctctt tttcttgaag 60
 cgaggtctcc aatcatcttt cttcttatcc attccactga cattgatctt caagaagaaa 120
 aggaactccat tgatgaagaa gatccacggc ctacaagctc cacatggagc tacatcataa 180
 aaagctatgt cttaaagctca tgtgctactt catgcccac cgaatactaa agtagtgaaa 240
 cccctttgtg acaacaaaat atgcttttgt tgagaataat tgttgaggag ttagccctca 300
 cagtaatgga taaccacaaa ttggtacttg cgagatgac ttaaggttgt ataaccttg 360
 agggagcgac tntaagtcac gacgatagtt cacatagatg acttggtaac cctgacaaat 420
 atataagcca tcttcagatg gtgagagccg tca 453

<210> 19470
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19470

agctttacct tagtttcgtt gcttacacaa naataaaaata attccatagg ttggaggatt 60
 gtgaaaatgac atttagaaaag ttaaaggagt ttttttccac tcttcttate ttgacaaaag 120

ccaagtcagg gttgccatt ataaaatact tgtcggctctt cgagcatgtc gtcagctcag 180
 ttctagtaca ggaatttggg gttgaataaa agccaaatta ttttgtgaac cgggtgcctt 240
 ttgggttgcg gattaggtat caaagttaga gaaattggca ttggcagtag ggtacacagc 300
 ctacagagttt tttatatttt tttttttt
 ctacagagttt tttatatttt tttttttt 360

<210> 19471
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 19471
 aactttggagc cgttcaaaat gccacagtag ctgtaatgag ctatagtggc tatgatatac 60
 aagatgccat ttgatgaac aaggcatctc ttgatcgtc gtctgagccc tgtattgtta 120
 tgaacaagca tgtcatttta ttggcgatt ttatgctttt gggtgcctta tattttattg 180
 ttacgcttt ttaacgcagc atttctgac ttgaccttc ctgctgtata ggtataatgc 240
 catcatctac aaccattcga atgacacac ataccgaata cttacgcta atacaact 298

<210> 19472
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19472

ttggcacaca gctaattcatt accttcttca ttgaattatg gtaaacacag ttctatcaca 60
 caataaaaaa agtgtcatat aacctgctta ccgtctctct tgatttttgt cgaagaccat 120
 gccatttttg aattgcatgt gcactctcta cataagctgc atttgttcca gtaccaacaa 180
 ttaactcagc aacaacatcc tgattgctga atcttgctct agctaactgtt ccgaactgtt 240
 cattaacctt atcacatca ccaagtttng tctctggctc aagacattaa gtaaccagga 300
 aattttaaag aaaaaaaatt gaaactacaa aactcattga tctaaatttt ccgcatata 360
 gaaactgaan tatattctca tggcagact ataggggaaa aagaaaacaa gataaacagg 420

aagagaagta cactgact

433

<210> 19473

<211> 450

<212> DNA

ttacattataa aactcagctt tacttgggtga ttgtgaagtt ttgaaaaatt atttctgcct 60
attcaacaaa ggctccatc tttatggaga ggttaccact actggaaaac ccaaatgcaa 120
atttttatcg aggcataaga cttacatatt tgggaagcca tagaaatagg gccttatata 180
cccaccacag tagacagaat tacaatagat ggaagcacat caagtgaaag cataacaata 240
caaaaaccta cggatagatg gtctgaagag gataaaagat gagtacaata caatttaaaa 300
gcaaaaagta taattacatc tgccttgyga atggatgaat atttcaaggt ttcaaattgt 360
aagagtgcta aggaaatgtg ggacactcta caattaacac atgaaggaac aatagatggt 420
aaaagatcta cgataaacac attaatcat 450

<210> 19474

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19474

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atgcagagta taacattttc tgtttataac ttattgatgt attaattgca ttgatcatca 120
ctgaaaaatg ttagattttg gtgtctcatt tcttgttttt ataatgattg ccaggatcac 180
tattttgatg tgataaccaa catagttggt ttggttgcct ctgtcctacg tgataaattt 240
acttgggtgga ttgacctat tggcgctatt ttgcttgcac tctacacaat ttcaaattgg 300
tctaaaacag tgcctgaaaa tgcctaggtct ctctttctct cttctttatto tgcgtcttat 360
gctttgttca attacgtact ctattttaa atgatggttacc tcttggntta gtttccttgg 420
ttggacaatc agctccacct gaagtc 446

<210> 19475

<211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19475

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 aagtcaaat anaatatgtga aagaagcatt gcaaaaagga gaaatctcaa gtgagcatga 240
 ctgcaatcaa gagagcagga aacactaaat gaagctcaca ttatgggtaca ttacttagtt 300
 tagtttctct tttttcttcc atgattgatg tgccttgaaat aattgaagaa gatgacataa 360
 gtttagagca naagcctaaa atatgtgctt tngtaaatcc tgtgcaagct ttggaatntg 420
 ttttcatctt gcacttgatg aaaaatatcc t 451

<210> 19476
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19476

tattgganat gaatcatatc tcattctctg ttttcatgcc ttggatttta tntgtaaatg 60
 aattaagcag ctgtttgaat aatgagctctg ttatttactt catattaatt ttacgtgtca 120
 ttgtctgcag actgattggg aggytggtta cttcccgtt acgtgcact ttagtgaaga 180
 ctaccacaagc aagctcccaa agtgtaaat cccacaaggt ttcttccacc ctaatgttta 240
 tcttctggg actgtttgct tgtctatact taatgaggat agtgtaagta catctctctt 300
 gataattgca tgactgcttg aaaccaatnt attttttggt atattacatg ctaagcaaac 360
 agttaagaat tataggttta ttgtctata caggggtgga gaccagccat aacagttaag 420
 canattcttg tgggcaccca agaattactt g 451

<210> 19477
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 19477

taacttttat tccataacga aattcaataa atacgcctcc tatccttaac ggagaaagtt 60
agcattactg ggaacaccca atgcaaatct tcattgagge aatagactta cacacttgcg 120
gagccttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt ccttcttctt
gatctacgat aaatacctta actcatgagt at 392

<210> 19478

<211> 442

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 19478

tctttgagaa aacttcttgg agaagctaga gcttagttac acacacctct ctcataacaa 60
agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagctat 120
acatacctct ctaatagcta agctcacctc cttgagatga gaagctagaa cttagctaca 180
caccctttat aatagctaag ctcaccccca tgacaaanaa catgaaaata caaaaaaaaa 240
gtccttacta caaagactac tcanaatgcc ccgaaataca aggctaaaac cctatactac 300
tagaatggcc aaaatacaag gcccanacga agganaaacc tattctaata ttacaaaaga 360
taagcggggt catacttagc ccatggggtc gaaatctacc ctaaagctca tgagaacnct 420
aggcctacn cttggatctc ta 442

<210> 19479

<211> 436

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 19479

tgtagcaaat tcaaacccca taaaatttta actcagatgt acgattaaat ccgcgaatat 60
aacgagaagc ttgatattga aaacaaaagc tctgagcaaa ttctaagac aaanattttt 120

gaaactaaca tgggaagctc tccagacatt caaatggta taaatcttca cacggat 357

<210> 19482

<211> 453

tttaaggac atctgtatga aaagttatga aatattgtt atttctctt atctctctt 60
gttcaatttc gagtgttact atatgtgatg cgcctaaaat ggacattcga gttaaatgtt 120
atgacacattt gaattactca agtgccttcg ttgttcaatt ctgagcgtgt cgttatgtga 180
ttctcttgaa tgggacatcc gtgtgaaaat ttatgacct ttgaattctt caagagcttt 240
tgatgttcaa ttctgagctt ctgacatat tatgcgcctg aataagacat ccgtgtgaaa 300
agttatgacc attttaattt ctgagagctt ttcatgttt aatttcgagc gtatcaatat 360
attataagga tgaatcggac ctgggtgtga aaagctatga ccatctaat ttcatgagag 420
cttccatgtt tcattttcga gcgtctctat atg 453

<210> 19483

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19483

actaagctaa caggccctta taggctgaaa caagcaccaa ggtagtgggt tgaccgacta 60
anaattactt tgattcagtt tgggtttcaa gctagcaagt gtgatccatc ctgtttcata 120
tataagcgtc aagctcacac tatttttctt ctagtatatg ttgatgatat tatcttcacc 180
gacagctcat cttctctcat ccaacagatt acaactcaac ttcattttgc attctctctt 240
anacagctag gtcaatryga ctattttctt ggtattgaga tcaagtatct acctgatagg 300
tctctcttca tgaactcanag caagtacatt agagacctcc ttcacaggac tccatggct 360
gaagttcatt ctatttcttc tcttatgacc tcttcttgcg aactgtctat aactgggggt 420
gaattatttc angatcttac tctctacaga tct 453

<210> 19484

<211> 257
 <212> DNA
 <213> Glycine max

<400> 19484

tttcttctctt cttctctctctt cttctctctctt cttctctctctt cttctctctctt
 cttctctctctt cttctctctctt cttctctctctt cttctctctctt cttctctctctt
 cttctctctctt cttctctctctt cttctctctctt cttctctctctt cttctctctctt
 tcaacgcgtct caacttattt atgttctctc arggetatca caaagcctcc gctgacatt 240
 cctcttctctt aaqcttc 257

<210> 19485
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19485

tttgttttca atttcgacca tctcgatata ttaccgttct catccggact tccgtgtata 60
 aacttattgt caattcaatt ttctccgagc ttgggatcaa aattttgagc gtattgatat 120
 attacgggac tcattcagac atccgagtaa aaaattattg tcgttagaat ttgatacgag 180
 cttccgtttt caatttgag catctctcgc taaattgcga cagtctgtcg ggcacccaag 240
 aaaaaattta ttgtcgttct atatttctaa gagtttccgt ttccaatttg gagtgtctcg 300
 atatattacg ggactcaacc ggacatccgt gtataaagtt attgtcattt caatttgctc 360
 agagcttcta gctcaatat tgagcgtctc aatatattac ccgattcaat cggacatgcg 420
 agtaaaaagt tattgt 436

<210> 19486
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 19486

tcacgcttat actaatttat cctaccatgc tcagactgac cggcggactg aacggaccat 60
 tcacccgctg aacgaccttt tgauggcatg tgtcttaaad cacaaggcca gtgggcacag 120
 tcttttgagc ttgatagagt ccacttataa cagtagctct cctctacca ttagecatgg 180

tccctatgaa gctctgcatg gtacaacgtg ttgcacaccc ctatgtctgc tatagcccg 240
 agaagacact caaccacgac ctgcactggt gcatcaccac ac 242

<210> 19488

<211> 449

<212> DNA

<213> Glycine max

agtgcacaaat ataatctctt atattcttat gaagagtttt tattttaaaa tctttgctta 60
 gaaacattca ctttttttgc cgaactagaa cagaatatgc ctagtattta cttaatatga 120
 ttaattctgt ctaagtttgt tctgcacaa catagaaaaa catttgcaaa ggcaaggtaa 180
 gtaatttttg gaaccacctt agatgattca ataggcttcc aaattttctg ctccactaca 240
 ttattaatca attgaaataa tctctcaatg caaagaacaa atagatatac agagatagga 300
 tctctatca cactctctta acatgaatga atttttcaag agcttctcca tccacatca 360
 cctg 364

<210> 19488

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19488

ctataaaaact cagcttntat agctttgtta acctatcatt taattataat ttttattaat 60
 gcaatcaatc taaagcaaaa gaaaaaaaaat gcaatcaatc gtttccaaaa ttcttaatat 120
 aaattttaat caattgtcaa gctatttaag caactatcta ttattaaaca catatattaa 180
 atattataac atatatantt ttgcatatct aaacgttggg ttatcttggt taattttcaa 240
 acctgatata agtgtaaaaa atttctaatt attaatgcaa agtctattct ttttctcata 300
 tctataatte tagttcttaa tattctgttt atctaaatct ttaatttcaa aatattttat 360
 cttaaagggtt cttaaatggt gaaattgaac gaatagaaaa taaaaacttt aactgtaaat 420
 aatctattca caaatgattt tcttatata 449

<210> 19489

<211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19489

ttgaatctctt tgaatctctt tgaatctctt tgaatctctt tgaatctctt 10
 gtaggagatc aaggttgcgtg gcatgcatg acactctctg acgatgtcca tgaacaggat 240
 gaagaatgac taactctgagt gctgagctgg cagcatgcct acgtgtatgc ctcttgaacc 300
 tggatctact acacacaata tggcagtatt tctgtgaatc 340

<210> 19490
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19490

ttccatacct tgagggaact caactcatct aagattctat ataaaggctc tntatgacta 60
 gtaccccttgc cattaacact agatgaatga tgactcatgt tgcttctaa gttgtggctc 120
 tttcttgttg gaggtttgaa aacaaaagggt aaaagaaact atgggttgaaa ctagccaaat 180
 aaacactaaa agaggtgtga aagataagggt aaaaaactaa ttggtaaaaag gaaagctatc 240
 tangegggtt gacaatggaa ggtaaaggaa ataagctatg aaagtaagca agacatgtaa 300
 actaggcgaa tctaagagt gtttggatga ccacattcaa gggtcccaac anaacactca 360
 ctatcttaag gaaaaattgc ctaaaattat tacacacaaa tgggaagtttg gtaacctatt 420
 ggaggctccc aacacacttt caatgaaagg cctt 454

<210> 19491
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19491

tttcatctca atctgaagca tctcgatata ttacagtgtt tcagtccgac atccttttan 60

aaattttattg ctgttttgaac tttctaggag tttctgtttt caattttctag tgtctcgata 120
 tattatggga ctcaatcgga gatcctagtt aaaagttatt gtgatttggc tatgaaaaga 180
 gctttctgttt tcaatttcga gctctcgat atatgacgg actcaatcgg acatctcgtt 240
 gctctcgttt tcaatttcga gctctcgat atatgacgg actcaatcgg acatctcgtt 300
 gctctcgttt tcaatttcga gctctcgat atatgacgg actcaatcgg acatctcgtt 360
 gctctcgttt tcaatttcga gctctcgat atatgacgg actcaatcgg acatctcgtt 420
 actaaaatgt tattgtcgtt cgaatctgat ac 482

<110> 19492
 <111> 431
 <112> DNA
 <113> Glycine max

<400> 19492

tgggaattca agtccaatcg tctcgatata ttacgggact gaatcaggca tccgagtaaa 60
 aagttattgt ggccttggaa tgcagagagc ttcggtattc catttcgagc gtctcaatat 120
 attacgggac tcaatcagac atccgagtaa tacgttattg tgcgttgaat ttgtctcatag 180
 ctctcgataat caatttcgag cgtctcgata tattacggga ctcatgcaaa caaccgagtg 240
 aatagttatt gtcgttgaat ttgtctcaga gcttcaacat tcaatttcga gcatctcgat 300
 atattacatg actcaatcag acatccaagt aaacagttgt tgcgttgaat ttgtctcaga 360
 agtttcaaca tcaatttcga agcgtctcga tatattacgg gagtcaatcg aacatacagag 420
 tcaaaaactta t 481

<110> 19493
 <111> 409
 <112> DNA
 <113> Glycine max

<221> unsure at all n locations
 <400> 19493

agcttctgac ttttctaang tctaacgaaa gggaaaacagg accaaccaaa ggcctctaaga 60
 acgttataat ctggattctt gtcgacaaag acagtagtat agggaaacatt acaatgcaca 120
 gaagcagtag gcaatctata tatcaagtat gctgctgtac taaaggcaaa atccccaaac 180

ttgagaggca gtgaagcttg tttaagaaga gcgagtccta attccacaat atgttttgtgt 240
 ttcttttcca ctacaccatt ttggtgatga gtgtgtggac agatcaatct aagagtgata 300
 ccttggtctg ctaaaaaatt agtgagaggt ctgaactctt ctctcaatc tgtgtgaaca 360

<210> nt sequence of the 3' end of the 19494 gene

<211> 19494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19494

agttatata ttttactcat ttaacaagaa ttgccactga aacgatagca ttggtctgac 60
 ttgcaatcct tggccacaga tcagcacaact cttttccaat gggaccagtg atagcagaac 120
 ctacattgaa acatgtcaca aacaaaatta ctaccagcaa atgcacaaat agaaggtcaa 180
 acggcaaaaga tgaagagaat aacaagtaca tgagaacatc tcattctgtat ttctttcttt 240
 ttgaaagcca aaaataatca gtggctactc actacataaa catgcacttt gttaccatgc 300
 anataaaaac ataaacgata cct 323

<210> 19495
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19495

agcttctatt ctgaatttca agcgtctega tgtactacag gacacaatca aatatccgag 60
 taacaageta ttgtcgtttg aatctgctta gagcttctgt tctcaatttc gagcttctcg 120
 atatattacg agactcaatc ggacatccga gtaaaaagtt atcgtcgtta gaaattcttc 180
 aaagcttttcg ttatcaatta ccagttactc gatatattat gggattcatt cggacatccg 240
 agtaaaaaatt tattgtcgtt tgattctgct cagagattnc gctatcaatt acgaggatct 300
 caatatatca c 311

<210> 19496
 <211> 404
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19496

ttgaagaaat ttaaaagaa ttaatttat actctgatat ctgattcagt cccgttaatat 60

ttgagagaaat ttaaaagaa ttaatttat actctgatat ctgattcagt cccgttaatat

ttgagagaaat ttaaaagaa ttaatttat actctgatat ctgattcagt cccgttaatat

ttctaaataa attcaaaata caattcaatt ttaaaagaa ttctaaataa ttctaaataa 120

atattgagac gctctgaaatg gaattctgaa gctctgagca aattcaaaag acaataaatt 300

ttaattcaga tgtctgattg agtcttgcaa tatatcgaga cgtctgaaat tgaataccga 360

agctctgata aaattcaaac gacaantaac ctttactcgg atgt 404

<210> 19497

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19497

ctataaaaact aagcttaacc tagaggacca gactatccag tgttggtttt atcagacaa 60

tgtctacaag attgacttgc ctagtgaata taatgtaagt gccattttca atgtgtctga 120

tctatctctt tttgatgcag atggaggggc cttggggtttg aggacaaatc cttttcaaga 180

aggagggagt gatgatgaca taaccaaggg caaggaccat gaagcacttg aagggcctat 240

gaccagagggc agacttaaac aagcccaaca catcatagag acaagggttg tcatttgtat 300

agctgccatt gatgatgatt gaaggcccaa gtggagaaaag atgaatgcc agaggcagag 360

gcactaccaa gactacta 378

<210> 19498

<211> 402

<212> DNA

<213> Glycine max

<400> 19498

agcttggtttt cattaaatct tacaagaatg gcctttttct cagtcgaagg ttctgagtta 60

tgcactcgtt atgctctgga caattcaaac tattcaaatc aattctaga atcacactag 120

gagtcaaaact ttccaagttt atccttggtg tttaggatga aacgctgaca tccaaatgag 180
 tggaagtaag agatattggg cttacgtctc ttccataatt catagggact tctttaagat 240
 aggttttatg taaattttgt tctataaata ccaggaaaada tttacagctt caaccataa 300

19499 19500 19501 19502 19503 19504 19505 19506 19507 19508

19509 19510 19511 19512 19513 19514 19515 19516 19517 19518

<211> 19499
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19499

tgccagaaaag gaaaacaagt aaaaagttct tttaaagtca aaaatgttgt ttctaattct 60
 aggtttttag agtctctaca ccttgacctt tttataccaa ctaggacaac atccttctat 120
 ggagtcagat atggtctggt catagtgyat gattacacta gatgacatg ggttaggttc 180
 ctaaccacaa aggtatgagtc ttttgatacc ttctataaat tttgtaaaaa gatttacaat 240
 gaaaaaggta tttgtatctc ttcaatcaga agtgaccatg agggagagtt taaaaatgat 300
 atttttgaaa aaattttgtc agagaatggt attcaccaca attttccact ccaagaacac 360
 cacaacagaa tggagttttt gagagcaaaa atagatctct ttaagaaatn gotangacca 420
 tgettaatga cccacccaac cctaaatact 450

<210> 19500
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19500

gctttaatgg cctagtgagg atggagaggg ccaactaaga agccagtggg gtttgatata 60
 tccattgaac agtacaatga taaggtyctt tgtgatgttg ttaactatgg agctagccac 120
 ttaacttttg ggagaccatg gcaatttaat aagagggcta atcatgatg tttcaccaac 180
 aatattcttc tcaaggatca acgcacaaaag atgtgctcta accattgagt ccacaadaag 240
 tgtgtgagga tcaaaagacaa atgagagaga taattcttca agaccagaga gacatagaaa 300
 acagagccaa acatttga gttcaaaaaag tgacgacaaa cagagggaaa cacacgagag 360

(283)

<212> DNA

<213> Glycine max

<400> 19503

agcttgcaca tctttctcgat caggttgaca attcaaatct aattgtccct tggcagcttc 60
ggtttctcga tctttctcgat caggttgaca attcaaatct aattgtccct tggcagcttc 120
tctttctcgat caggttgaca attcaaatct aattgtccct tggcagcttc 180
tctttctcgat caggttgaca attcaaatct aattgtccct tggcagcttc 240
ctttgcgcat atcagggttt taacccgacg ttttaactgt atgcacacat tgaatg gta 300
tttgggtttg tgtttgccct tcccacttgg tggctggata cagacaatgc atgagcacc 360
aggttatatg cgaggatg 378

<210> 19504

<211> 279

<212> DNA

<213> Glycine max

<400> 19504

agcttctgtc tttactttga accggctctg gtctatccac ttgtggaacc aaagaaaatg 60
aaaacaaagc acttcttcta tccatactta gagaacttgc gttcttgttc cactgggaaa 120
aaaccagtc c aatgaatatg gtcaagtgtt ctacgcaaac catatgtatt gacagcttca 180
ttagcagctc taaagccacc accaatagct ggggaagaat cattggccat ctgattcttg 240
acaaattcac ccaatttatt ttccacatga gattctgcc 279

<210> 19505

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19505

agcttccaag aatcaagatc aagattcatg aatcaagaga agacttaatc aagataagta 60
tgaaaaaggtt ttttcaaaaa ctgagtacca catggatttt tctcaaaaaca tatttacaa 120
agacttttta ctctctggta atcaattacc agattattgt aatcgattac cagtagcaaa 180
atggatttga aaaagttttc aaatgaattt acaacgttcc aattgatttc aaaaaagctg 240
taatcgatta caatgttttg gtaatcgatt accagttccct ttgaacgttg aaatcaaat 300

tcaaatgcga agagtcacat cctttcacat aaaagatntg tgtaattgat tacattgatt 360
 tggaaatcgat taccagtgat tggttctgaa taaactaaaa gatgtaact 409

<199> 19506
 19507
 19508
 19509

<200> 19507
 19508

agcttctgga tatactatgc atctgaatcg gacaaccgtg tgacaagtta tgactatntg 60
 aatctctega gagcattcct tattcaattt cgagcgtgtc gataaatcat gcgcctgaat 120
 cggacattcg tgtgacaagt tatgactatt tgaatttctc gagagctgcc ggttttcaat 180
 tttagagcgc togatatgtg atgcgcacga atcggacatc cgtgtgacaa gttatgacca 240
 ttatgaatttc togagagctt togatgttca atgtcgagcg totggatata ttatgcgcct 300
 gaatcggacc tccgtgtgac aagctctgac catttgaatc totcgagagc attcgttgtt 360
 caatatcaag cgtctcgaga ttatatgcgc cttgac 397

<210> 19507
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 19507

agcttctggg attatgtgat agtgatcttg ccagacatgc tgatgatatg ataagtacta 60
 ctggatctgt attctttatg ggcgattgag tatttacatg gagttctaac gaacaaggca 120
 ttgtgacact ttttacttgt gaagtcgagg ttataactac aacttctgc acatgtcatg 180
 ccatttggct aagaagattg ttggaggaac ttcagttgct gcagaatgaa agcaccaaga 240
 tctatgttga tagttgatct gcgcaagagc tcgccaagaa tccggtgttc catgaacgaa 300
 gctagcata 309

<210> 19508
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 19508

agcttatctt tgggggcaga atcactctca ttaactcagt cctatcagct ctacctatct 60

attactatc ctctctttaag atccctaaaa aagtgggtgca caaaattggt tccatccaca 120

gagctctctc cctctctctc cctctctctc cctctctctc cctctctctc

gagctctctc cctctctctc cctctctctc cctctctctc cctctctctc

gagctctctc cctctctctc cctctctctc cctctctctc cctctctctc

gagctctctc cctctctctc cctctctctc cctctctctc cctctctctc 180

<410> 19509

<411> 390

<412> DNA

<413> Glycine max

<400> 19509

agcttctgtc cctctctctc tggaaatga atgtagcata tagatccaaa gacctctatg 60

tgcttctgtc atggtctctt cccgttccaa gcttcaattg gagtcttctc tttacagac 120

ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttccagc ccagaatttg 180

ttaggtagtc cctctctctt gagcatcgat ctagctatct ccataactgt gogattctct 240

ctctctggaca ctctatcttg ttgaggagaa tatgagactg taagttgtct ctcaatgcct 300

tcctctctac aaaatctctt aaactcgcga gaggtgtact ttttgcgcgc atcacttctt 360

agtactttta tccgttttcc actttgattt 390

<410> 19510

<411> 390

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 19510

agttttctta agaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60

ctaagctcac ctctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcacc ccatgacaaa aaaacatgaa aataacaaaa aaagtctcta ttacaaagac 180

aactcaaaaat gcccgcgaat acaagcttaa aacctatag tactagaatg gcaaaaatac 240

aaggcttaga caaaggaaaa acctatctta atatttadca aataagctg cctctactct 300

agcccatgtg ctcgatatct accctaacgc tcatgagaac notanggeet ttccttggat 360
ctctagccca atctacttgg agtcttctag 390

<210> 19512
<211> 335
<212> DNA
<213> Glycine max

agctttctaaa ctctgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatattctaa gaaggggggg gttgaattaa gatattcgaa actttttccc ctaattaaaa 120
atctatctta ctcttctact aagttatgaa ttcctttaat gacaatcttc ttaaatatta 180
attcaaatga agcacttga atatgaatat aaagcaataa taaataaagg agattaacgg 240
aagagaaaat gcacactcag ttttatactg gctcggtcac acccttctgc ctacgttcag 300
tccccaagca acccgttga gagttncact aacttctcaa ttccttttac aagttctaaa 360
caca 364

<210> 19512
<211> 335
<212> DNA
<213> Glycine max

<400> 19512
agctttggag aaccaagcca atcaaatgc tagacgaaat atagatggga atagaggtaa 60
caatggcggg aatgacggac cgaggcagaa cggggttgag ggagttaaag tcaatgttcc 120
tcccttcaaa ggtagaagtg atccagatgc ctacttggac tgggaaatga agactgagca 180
cgtatttgcg tgcaatgact acactgatgc gcagaaagtc aagctagcag cagctgaatt 240
ctcgcactat gcccttgttt ggtggcataa ataccaaaaga gaaatgttga gagaggaaag 300
ggagagaggt tataratgga ctgagatgaa aagggctgat agaacaaggt atgtgcccac 360
tagctataac agaaccatgc gacag 385

<210> 19513
<211> 381
<212> DNA

<213> Glycine max

<400> 19513

Agcttgcgcg caccgagttt tccgactatg ctcttggtg ggggaacaag ctacaaaagg 60

ctctctctct cctctctctt cctctctctt tccgagcact ggtatgtttc atggtttttag 120

aaatattga ggaagatgag gaggtaacta tgggttcgat tctttaatgg ttgactaatg 180

atattctgtga tattgttgag ctgcacgagt ttgttgaaat ggatgatttg cttcacatag 240

aatccaagt ggagcaacaa t 300

<210> 19514

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19514

attgttttca attatgagca tctcgatata ttacggggact caatcgtgtc atccgagtaa 60

aaagttattg tcgtttgatt tttctcagag cttcagtttt caatttcgag cgtctcgata 120

tactacggga cacaatcgga catccgagtc aaacgttatt gtctgtttgaa tttgcttaga 180

gcttttgttt tcaattacga gcgtctcgat atattatggg gctcaatcgg acattcgagt 240

aaaaagctat tgtcgtttga tttttctcag agcttcaatt ttcaatttcg agcgtctcga 300

tatactatgg gacacaatcg gacattcgag tcacaagtta ttggcgtttg aatttgctca 360

cagcttctgt tntcaattac gagcgtctca catattacgg gaetcaatcg gacatccgag 420

ctaaagttat 480

<210> 19515

<211> 388

<212> DNA

<213> Glycine max

<400> 19515

agctttgcag cctattccct ccttgaagta gctatgggtt tttctggtgt cctcttgatc 60

tccctatttg aaacttcaac ttgtccattt gtttgcggat gatagagtga tgcataatag 120

tgttgaacat catattgttg gaggacgttt gaaagttgat cattacaaaa gtgtgtacct 180
 bractactaa tcaatagtct aggcactcca aactatagaaa agatgtttct ctttaagaac 240
 caatcattg tttttccatc atcattgaa ctatgcattg ctatgcattg ctatgcattg 300

<210> 19516
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 19516
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 gacagcttcc cagggtctgc tctccagtga tttgacgaca gccaccatcc ttgtgtccca 180
 gtatccatag ttggttccat ctacgattgg tggctctgtg actgtgcttc cttctatctc 240
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<210> 19517
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 19517
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 aatccctcc gccggcgccc gctatgcct cttcgactcc cttgctccgc ctgctccggg 180
 gccgtttccg aagtgcgca tctccgaatc gaaaaaggac caacgctgog aggacgagtc 240
 cngtgaggag aacgcgaagc cgcagagagg gtctctatc tcttgagata aggaatccct 300
 gaatggctcc gaaacgtct cgttttagaga ggaagagccc gaatacgttc ccgaaagggg 360
 ttctctccc caatgcgacg tgggagagat catcttatac ggggacggg g 411

<210> 19518
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 19518

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 240
 300
 360
 331

<210> 19519
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19519

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 tcagaaggaa aatctactta ttgtacaaat ctatgtagat gacataatct ttggttcaac 180
 cttagaaagg acgtgcaaga agttttttga gctaacgaaa ggtgaatttg aaatgagtat 240
 gatgggtgag ctgaagttct tcttagggct tcaagttatt cataaagatg atggaatatt 300
 catccatcaa gagaaataca caaaggatct acttanaggt tcaagatgga tgaaaccaaa 360
 cctatggctg cccctatgca tccaactatt gtcagtgaca aaggtgagaa acacaatgat 420
 actc 424

<210> 19520
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19520

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 caaatgtccc aaattcnaac taattggccac aaaattcgaa aatttgaaga tgaandacga 180
 ggggttttct ggttttttct ggttttttct ggttttttct ggttttttct ggttttttct
 ggttttttct ggttttttct ggttttttct ggttttttct ggttttttct ggttttttct
 atttcaatc caattcattc caattcattc caattcattc atttgcact tgaagtglyga 300
 tgaactcatt ggttccctta taactttgac tatgactctc gg 42

<210> 19521
 <211> 428
 <212> DNA
 <213> Glycine max
 <220> unsure at all n locations
 <400> 19521

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 tagygcattt cttttgaaag attcgtgccc cttttttgca catgtttctgt agttgcaccc 180
 tatecgaaga cattatactg acaactgcctt acgaaggcaa ccattangtc ctcccangaa 240
 tggactcggg aaggttccaa gttagtgtac caggtaacaa ctaccccagt aagactttct 300
 tggaaaggaat gtactaacaa ttcctcatct ttgcggtatg ccncatctt ccgacaatac 360
 gtcttttagat ggttcttggg gcaagtaatc ccttgtact tgtcaaagtc cagtaccttg 420
 aacttgag 428

<210> 19522
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 19522

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 tgrataaatg tggthacaat ctacatggtt atatcatgct gcttatgaaa tttagtttat 120
 tacaataaact tcttgcctct aatttgcata tgtatggggt gacacccctt acccggacat 180

atatatataat aaataaaaata tgtaaataata ttggtaaaca aatccacgtg ggtaaaagat 240
 tcaatattcac ttcaactatta tcaaatataa ttgtataaaa tgttgtttca atctacatgt 300
 gtatatcatg ttgtttatgc aatttacttt attacaaaaa ttttttgctt ttaattttga 360

<200> 19523

<201> 19523
 <202> 19523
 <210> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19523

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 ggtaactata attaatccat aatttaccat acattaaatt ttttttatat agaatttaat 180
 gactgatcat aacttttaag taccagtac tagtttggtt tctctttaat ataactacca 240
 aaagatatgg atcttanatt tgattctgta gaaagttaac taatgggtgta tgtgaatata 300
 aaattgaatc gtgcagctga ttgatggta ttaattattg gtgtgttctt gatatattta 360
 aggaaattgt gaatc 375

<210> 19524
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 19524

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 tttggaaaga cccaaaagaa gaaaaaaaaa agtaaaaatt ccatatggaa gatgaggetg 180
 atattgtttg atcttccata ctggttcgat ctgatgtca tacattgtat tgatgttatg 240
 catgttgaga aaagtgtgtg tgatagtgtc atcgacaatc ttcttaacat tcaaggcaag 300
 acaaaggatg gtttgaatac ttgccaagat ctagtgtgaga tgggtatacg agaccagtta 360
 catccaaggt ttgaggttaa gaaaatatac 390

400 04025

[illegible]

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<223>      unsure at all n locations
<400>      19526
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taatcatcac	catattatac	taatgatttt	ttttattgat	cagaactcgg	aaaactggaa	180
gtcctctcat	ttagacaaaag	gaactatcat	ggatccaaat	tacagcttgc	ctcccaatat	240
tgtcttgata	actcttgagg	tagagcaact	tttccaagga	tatatatcta	tagtctataa	300
cactcttgac	tctntttgtc	tcanactaaa	atgttctgca	tgagttggat	ggtggaattg	360
tgtcttttcc	gttgccacat	ctata				365

400 1957

aucticaaca tcaaacact tccaaatcgc tcaaac'ac' tcaaatguat ttuatgudgc c

ccttggagat tctaagacca ggaatacccc tctgggatct catttgaagt tttcaaagaa 420
gcaatctttg cagacaaatg 440

agcttatcaa aattgaaaat gatggttcct aatctcaaga atcttagagt cttagattgt 60
gagtcttgcg aactaggaaa acatgttagg tcatcatttc ctcaaaactgt acaaagatgt 120
aactctgctt cctctaccat tcaactctgat atttggggac caagtagggt tacatctttt 180
gattttcggg attttgtaac cttcattgat gaatttttca gatgtaactg ggtttattta 240
atgaaagaca gatctgaact ttgacctata ttcattgtgt tctttaatga gattgagaat 300
caatttggca aatcaattaa gattttcaaa agtgataatg cttaaagagta tctctctcat 360
gacctctctt cctttttatc ttcaaa 386

<210> 19531
<211> 411
<212> DNA
<213> Glycine max

<400> 19531
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gagctttcaa cagcttcttg cggattacca cgaaggcctc atctctgatt ttcaaaacct 180
catctactat gcccaatgtc aagggtgactg taatgtattg tggatatggtg aggggtttct 240
tgetgaaagt catctcgtat ggggacaaac tagagccgga gtggaccgag gtgttataga 300
accactccac ccaattttaa aacttccccc atgaagaagg cttcttatga acaaaggctc 360
gaagacattg ttctatgaca cggttcagca cctttgtcta accatcgatc t 411

<210> 19532
<211> 329
<212> DNA
<213> Glycine max

<400> 19532

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tctaaaccca tctcccaaac ttctatttca ccttcacgac cctttttatc ttctaaatac 120
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 180
ttctaaaccc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 240
gaggtgatgt aagaccactc caccacaacc 329

<410> 19533

<411> 373

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 19533

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aatctatata gaggcaatag atttaaatat ttgggaagcc atagaacaag gaccttatgt 180
tccctctata gtggccggaa gtgcaacaat agaaaaacct agagcatatt ggactgagga 240
agaaagaaga ttantacaat ataatttaaa ggccaaaaat attattacat ctgctctatg 300
aatagatgaa tactttacgg tctcaaattg taacagtgtc aacgatatgt gggataccct 360
acaagtaaca cat 373

<210> 19534

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19534

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tggtttgtgga ttgaatttct ccagaattta cgttgggtca atctttatcc agagaggaaa 180
tcagacacct ctgaagtat tcaaagagtt gagtctaaga cttcaaagag aaaaagactg 240

tgtcatcaag agaattatga gtgaccatgg cagagagttt gaaaacagca agtttaactga 300
 attctgcaca tctgaaggca tcaactcatga gttctctgca gccatcacac cacancataa 360
 tgcataatgt caacaaacaa catcaattt 324

1
 100
 1000 Glycine max

<223> unsure at all n locations
 <400> 19535

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 atcgagagcg tggaaattga acaacgcaag ctctcgtgaa attcaaatgg tcataacttt 120
 caactcatag gtcggattca ggccataat atatcgaga gcaagaaatt gaacaacgga 180
 agctctcgag aaattcaaat gatcataact ttctcgaagg aggtcagatt tatgcgcata 240
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 cttttcactc ggaggtecca ttcaggcgca taatatatcc agacgctga aattgaacaa 360
 cgggaagcttt 370

<210> 19536
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19536

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 taaatttcta aggcacatcat tgctaagaa atctcgggca gtaagtagac ataactgtaa 180
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 aaaggtecac aaatatcagt atgcacaatt tcaagaagct gaggctctct tgragctcct 300
 ttctttgtat gttctgggtg ttatccttta atacaaccca caaaaatatt tagatcogta 360
 caactagat aacgaaqaar tcatctttta taactttt 398

<210> 19537
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 19537

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 attttaattt ctcgagagct cccgttgcta attttaagcg cgcctatatat tatgctgccc 300
 caatctgacc ctacagttaa agctatgaat attcgaattt cccg 344

<210> 19538
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19538

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 tcaacaacgg aagctctcga taaattcaaa tgttcataac tgttaactcg gatgtcagat 120
 ccaggcgtat aatatataga gacccctaaa attgaacaac gaaagccctc gtgaaattga 180
 aatggtcata aattttaact cagatgtcat attcatgcgc atgatataac gagacgctgg 240
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 cgattcatac gcattataca ttgagatgct cgatattgaa caacggaagc ttttgagaaa 360
 tcacatgggc ataaacttta actcagatgt cat 393

<210> 19539
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 19539

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atttacaata gacctcctca acctcagcag caaaatcaac cacagcagaa caattatgac 240
 ctctccagca acagatadca ccttggatgg aggaatcacc ctaatatcaa atggctccagc 300
 cctcaacaaq aaaaacacaa ccttgcctct tcttcaaaa tcttgcctggc ccaacaaac 360
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<211> 392
 <212> DNA
 <213> Glycine max
 <400> 19540

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 aaagtaatag ctccactag agctttttct tccaactcta tcaccaacat agtcaacatc 180
 ataatagett gcaagtctga aactctctct atttttgaac ataacaccaa gattagaagt 240
 tccaattaaa tatctacaaa tatgtttaat ttcacttagg tgaacttccc ttgggtatct 300
 ttgaaatctt gcacatagat aaacattgaa cataatatca caaatggatg cagttagata 360
 gaccactgag ttgcctccac tttttttgat cc 392

<210> 19541
 <211> 422
 <212> DNA
 <213> Glycine max
 <400> 19541

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 tgetgaatgc taagaggttt gcaaaaacttt tttgetgett tagtctattc tgcaaatact 180
 agtttttgatt ctctgctgga gtaactacta gcctgtgcta agccttctcc acagtctggt 240
 ggcattgcta aaaaagcttt gcattcaata gctcagtgty ttgctgtttct atgccttget 300
 gctggtgatc agaagtgttc atctactgtg aaaatgctta ctgacattct caaggatgac 360
 agcagatcta actcagtaag tttttttctc cagtaactctt gacgtgtaat gatattaatt 420
 ga 422

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 gtttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt 300
 ttttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt ttttcttggtt 360
 agagaaacac agaatccagt agaaacacac agaaacacac agaaacacac agaaacacac 420
 g 481

<310> 19545
 <311> 407
 <312> DNA
 <313> Glycine max
 <323> unsure at all n locations
 <400> 19545

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 aaaagcttac taaggcacct attctagctc ttctgaatt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggtgtg ggagttggag ctgtattgtt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgcc cctcaacta cccacctat gataaagagc 300
 tctatgcctt aataagagcc ctccaaactt gggaacatta ccttgtttcc aaggaatntg 360
 tcatcatag tgatcatcaa tcaattaaat acattagagg gaaaatc 407

<310> 19546
 <311> 349
 <312> DNA
 <313> Glycine max
 <400> 19546

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 tttatacag gatgtccggt tgagtcctgt aatatatga gagctgttaa attgaaagcg 180
 gaagctcgta ggaaattcaa acgacaataa ctttttaact cgatgttcga ttgaatcccg 240

taatatatcc agacgctcaa aattgagact acaagctctg agcaaattgc aatgacaata 300
 aactatataa ccgatgcccg gttgagtccc gtaatatata gagaccctc 349

<210> 19547

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 aactatogag acgctcgaaa ttgaacaatg gaagctctcg agaaattcaa atggccataa 120
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 taaactttca ctcgcatgtg ccattccaggc gcatacgcta ccagacgct agaaattcaa 360
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<210> 19548
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19548

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 ctctgctccc tagaaaactt gaacagcgtg gttagcccat gaactagttt cttcgaatag 180
 gccttggtgt ccttgaaaac aatggaagca gatgcacaagg cagcagccat cttagctgca 240
 agatcagaac aactatggca ttcagtcaca gggcgggtcat agtccatgtc ctctgggcgc 300
 atccagcaat agtggtcatt cggactgtca ccacccgaag tatctccaag cccaaacctgt 360
 caaacaagca taaaaaacca tcattgagac acatcctact ccgcaccaca caacanaatt 420
 ctagtccacc aacc 434

<210> 19549
 <211> 398

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19549

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gagaaaaacg ttattgtcgt ttgaattagg ttagacgttc aacattcaat tttagacgtc 300
ttagatatatt acgggactca atcacacatc cgagaaacaa gttatggtcg tttagcattgg 360
cttagagctt caacattnaa ttttgagcgt cttagatat 398

<210> 19550
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19550

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ttctcagatg tctgattgag tcccgttaaca tctcgagacg ctcgaaatg aatgttgaat 180
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ttttctcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaacgttga 360
agctctgagc caatacaaac gaccataact ntttactcgg atgtctgatt gaggetcgta 420
atatatctag acgctcgaaa ttga 444

<210> 19551
<211> 435
<212> DNA
<213> Glycine max

<400> 19551
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agctctcaat tgcctctcca cttgaataga tttatgc

397

<210> 19554

<211> 443

<212> DNA

<213> Glycine max

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cagttagaagt tgcacacgaa gttctgtacc cgtgttagggc gaaaggcagc attctgtgac 180

aatcttttga tgacacgtc attctctgaa caatctctct gatattctta ttgcagacct 240

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ttgtgacatt agtataagaa gcg 443

<210> 19555

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19555

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aatgacaatc catctctata tgettagtcc ttctatgaaa gactgggttc gaggaatat 120

gaagagcacc tcgattatta caatadaact tcatttgcaa ctcttcacaa aacctcaatt 180

cttgacacaaa ttgtctaate cacatgagtt cacaagtaac tataccaccg gatcgatatt 240

cagctctctgc actaaaccca cctacaacccg tctgtttctt gcttctccaa gaaataagat 300

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aatcagcacc acaata 376

<210> 19556

<211> 443

<212> DNA
 <213> Glycine max

<400> 19556

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 tttagccatt gtttttaagg gtttttagac tagtttttgt attacgggta gttttgtaat 300
 ttacatgta cttaagtggat atttgatgtg tgtgggtgga aataaattta attgaattgg 360
 tagaagccca atccaattaa atttttagag gggaggtgag catttgcctta ctacacccca 420
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<212> 19557
 <213> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19557

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 aattgaacca cgggaagctct cgagtaattc aaatggteat aactttttcac acagatgtcc 120
 gattcggggcg cataatatgt cgagtagctc gaaattgaac aacggaagct gtcgagaaat 180
 tcaaatggtc ataatttttc acacggaggt cacattcngg cacataatat gttgagatgc 240
 ttggaattga accacgaaag ctctcgagaa attcaaatgg tcataacttt tcacacggac 300
 gttcagattca cgggtatcac atatacagac gtcgaaaatt g 341

<212> 19558
 <213> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19558

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 ctgtgtttcaa ttgtgagcat ctgcacatat tatgtgcccc aattgtgactt ttgttgigaa 120

gagtcattcc ttcctctctat ctcttttctt atctttt

397

<210> 19561

<211> 413

<212> DNA
<213> Glycine max

<400> 19561

ttcctctctat ctcttttctt atctttt
gattcaaatgg agaattagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
cttctctagac aaaaatogaat tgatgggtatt aaactcaaca ttcctccatt taaaggaaag 180
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ttcattgcaac 240
aaactatgagg aggcacagaa ggtgaagctt gcgcacaagg agttttccga ctatgctctt 300
ctgtgtgtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360
tggacggaga tgaaaaagat catgaggaag cggatatgtc cggctagtta ctcaagggaac 420
ttgaaattca agc 433

<210> 19562

<211> 412

<212> DNA

<213> Glycine max

<400> 19562

acattctagag gtgctttcca atctgttctt ttaccactta ttctgccttc ttttattttt 60
agagtgggaa tgcctctgac agcacctttg tcaatgattt tcttcattgc tcttaagtgc 120
agatgtccca atctttgatg ccattattctg acttcattct ctttggagga tagacatgtg 180
gaggagtaac tgccttcttg acgtgtccat acgtagcagt tgtcctttga tctgctgccc 240
ttcaattagaa ctccactctt ctcatcagtc actaagcatt ctgaactttg gaagcttaca 300
ttgaatcctt catcacacag ctgactgatg ctgacaaagt ttgcagtcag tcccttcacc 360
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<210> 19563

<211> 397

<212> DNA

<213> Glycine max

[illegible]

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<23>      unsure at all n locations
<400>      19564
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aggtcacctg	attttgttgg	gtatattaga	ggtcaggfat	acaacaatat	aaaatcgatt	180
tgttgatttt	atgtcaagta	aatcctgtgt	ggatagggaa	agcctttctg	aatacctact	240
tgatcaccac	atccatcttt	anaaggaaaa	ttagttgcgc	tcaaattttc	agagatgaca	300
ttatgctctg	tgaattatct	tttcattgat	tgaaagtcac	taatgatata	tttcatatcc	360
tttatttatg	tttatataat	gctgatgacg	ttttgccgt			399

```

:223>      unsure at all n locations
:400>      19565

```

(1.1.3)

gagcaacagac aagacgggtc ctttctagag cattgatcca aactggcatt caatctcatg 180
 tttctgggtaa tctgggataac gatagggcgc tacgctgaat ggccgaactt gcttcattgat 240
 gtgaatgtcg aggtctgttt cgcgggcctt cgtcatctaa taacggggctt caaataatgc 300

<211> 1466
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19566

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 gtaaaacytt attgtcgttt gaattcgttc agaggttcaa catttaattt cgagcgtctc 120
 gatataattac gggccttaat cagacatccg aatacaaaga tattgtcgtt tgaattggct 180
 cagaacttca acattcaatt ttgagcgtct cgatatatga taggactcaa tcagacatcc 240
 gagtaaaaaag ttattgtcgc ttgaattgtc ttagagcttc aacattcaat ttcgagcgtc 300
 tcgatataatt acgggcctca atcagacatc cgagtaaaaaa gttattgtcg tttgaattgg 360
 ctcaacagctt atacattcac cttcgagcgt ctgatatatat gacaggactc aatcagacat 420
 ccatgtaa 488

<210> 19567
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19567

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 aagtacaatc ctgggtggag gaatcatccc aaccttagat ggtcgaatcc ttcaaacag 120
 cggcaacaac aacaacaaca acaacaacct tattttcaga atgctgctgg cccaagcaga 180
 ccatatgttc ctccaccaat ccagcaacaa caataacagc aaacagatga ggccctccg 240
 taacctccc ttgaataact tccgaaccaa atgactatcc aaaacatgca gtccaacaa 300

gagaccacag cctccattca gagcttaact aatcacgtgg gacagtcggc tacacagttc 360
aatcaacaac agtcccagaa ttatgataga ttaccttttc aatc 404

<210> 19568

<211> 386

<212> DNA

<213> Glycine max

agttagct gtcagggaac ctgagcttc atgaacttg ttaacatca atgagaggt 4
attcctagaa gccatcttat gaaagataga cactccgagg tactttccca gatccttagt 100
ccagccata cctatttgtc cacttagttg atccttgact cgagccctca catttttggg 140
aaagaacatt caacatttct ccaacctaat tttctgctta caactcttgc aaaacaaatt 240
ccaaatatte ctgattgaat ggacctgtct cactaaagcc ttcataaata aaataaggtc 300
ccatgcaaaag gctaaggcag atataactgg accatgtctc acaagaagaa tatggcacca 360
tactctttg 369

<210> 19569

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19569

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gtgaagaaga atgtggcatt tacttagggt gaaaaacaag agcaagcctt tgctttgtct 120
aaagaaaagc ttactgaggc acctgttcta gtctctcttg accttttctaa aacttttgag 180
ctanaatgtg atgctctctg agtgggagtt ggagctgtat tgttacaagg cgggcacctt 240
attgcttatt ttactgaaaa acctcatagt gccacctta actacccac ctatgataaa 300
gagcttatg ccttaataag agccctccac acctgggaac attaccttg ttccaggaa 360
ttctcatta tagtgatcat caatca 386

<210> 19570

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19570

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tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt   180
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tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt   300
tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt   360
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gctaatgctg aatg                                                    484
  
```

<210> 19571
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19571

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ccgagggata aacacatcta aagtaagggtg ttagattata tgataatata ttctgatttt  120
atataattct tatatctatt agatttatct ttagtcatat ctttagctat taggtttatc  180
tttagttnta tagttgttat atctattcga tttatcttta gccattccat tagatttata  240
tttagccata tcttagctt atatatcttt agcttgtaac cttatatata agagaatggt  300
gcttaatgaa ttaattcaagg aaacaatttc ttctatggta tcagattgct taaggaaata  360
tttttgaacc ttctcagcc ttccgcacac aggccttagc gtctgtttagc cctttcttc  420
ttcttctccc cttctctt                                                    438
  
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<210> 19572
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19572

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 aatttgtacc tctcgcaagg gtttgtgggt tytgctcttc tcttgaccac catacagacc 120
 tttcccttc catgcagcat cctgcagcaa tgcagcagcc tgaagcttat gctgcaata 180
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
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<210> 19573
 <211> 330
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19573

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 tctcttattt ccagattggg aatgcctcta acagcacctt tctcaatgat ttctcttcctg 120
 cctcttaagt gcagatgtcc aaatcttga tgcctatctc tgacttcctc ttctttggag 180
 gatagacatg tggaggagta gctagtttct tgggggtgct atangtaaca attgtctctt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaacc ctcctcacac agctgactga tctgatcaa gtttgccgtc 360
 agtcccttca ccagcagta 380

<210> 19574
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19574

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 atatagacgc tggaaattga acaacggaag ctctccagat attcaaatgg tcataacttt 120
 taacttggag gtcgattctt ggcacataat atatcgagac gcccgaaatt gaacaacgga 180
 agcaactggag aaaatcaaat ggtcattact tttaactega aggtccgatt caagcacatc 240
 acatatagag acgtcgaaa ttgaacaacg caagctctcg adatatccaa ataatatcaa 300

cttttaactc ggaggtccga ttcaggcgca taaaatatag aaactgtcga aattgaacaa 360
 tggaaagctct cyagcaattc aaatgggtcat aacttttcat tcggaggtct gataactagcg 420
 catgatatat cyagaagct 480

<209> 19575
 Glycine max

<400> 19575
 agctttgtgt agaagaatga tggataatct tcatccaatc aaggataact attttctaaa 60
 aaaggcaaga aagagactga gactttctga tctagttggt ttctcaaaat cacatatttg 120
 accctatttt ctttggtaac tcattttcta attactacct aacaaatatt ttgaaagaaa 180
 ataactotta atatacgcg gataggagca ggtaaatcca tattaataag ctgcaaaatt 240
 tggcaaaagga tacatccaga tcttatgcga tcgagttctc cattgaaaat aatcactttc 300
 cgttcagtgt tcaagaccgc ctctttataa agttcttcca caacaagtat ttctgaaata 360
 caaggagca gtaatcatga ta 380

<210> 19576
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19576

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 cataaacatc accaccaccag ttgtctttgt tattttttta acaagatgca ccacgcccac 180
 catgcctccc accagctcca tggttgccaa caggtgtgoc actatttttg gaaggtggag 240
 accctcttaa agatgatgag tctatataag aattgtatcc cattgtcaga ttggtgcaa 300
 ataaaaccac agagccagaa acaatggatg catcttgacc aagtctaaag ttgcgggata 360
 cattgaactgt tatcatacac ccttncatgg gacataaaag tgacacatca gagagtatc 419

<210> 19577
 <211> 392

<212> DNA
 <213> Glycine max

 <400> 19577

 aattatctg ttttaattgg aatctctaat caaaagttat tctcttttga atttgcctac 60
 ttttctctct ttttctctct ttttctctct ttttctctct ttttctctct ttttctctct 120
 ttttctctct ttttctctct ttttctctct ttttctctct ttttctctct ttttctctct 180
 aattatctg ttttaattgg aatctctaat caaaagttat tctcttttga atttgcctac 240
 aagcttctcg ttttcaatta ctagcgtctc gatctctac gggacacaa cggacatcgg 300
 agttaaatt ttttgcctct tgcctttct tagagctac gttttcaatg tccagcgtct 360
 cgtatattc cagcgtcaa tc 382

<210> 19578
 <211> 430
 <212> DNA
 <213> Glycine max.

 <400> 19578

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 atttgaaatt atttatttga ggttataaaa gtgactaatg aaattttctat aagtttttca 120
 ttgtattgga ccttagatgt aacaaaactt ttgttttggg tgctgtcaa gtatgaagta 180
 acaatgtagt gtcatatcat cacttagttg acgataaaga ttcaacaaaa gttttgatat 240
 atcaagacaa taatgtaacc aaaaaattta ttgaagacct aaaataaaaa attgtcattt 300
 atcatgaatt tcacacatat ttaattttt cttttattta caagagtttc acgttcgaat 360
 ttattaataa gctcttattt aataacattc tattgaatag gtgcttcatt aacttcgtta 420
 cctcaattt 430

<210> 19579
 <211> 433
 <212> DNA
 <213> Glycine max

 <400> 19579

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 tggattacca gtatgtttga acattggaat tcaaatttaa ttgtgaagag tcacatcctt 120

tccaaaaaaa gttttgtgta atcgattaca ctgatttggt aatcaattac bagtgaragt 180
 ttctgaacaa aatcaaaaaga tgtaactctt ccaatagttt tcaagttttt tttaaagtca 240
 taatttttcc aatatggttt taagttttcc taaagggtat aactgtttt tttttttt 300
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 360
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 420
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt 480
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<210> 19530
 <211> 337
 <212> DNA
 <213> Glycine max

 <23> unsure at all n locations
 <400> 19530

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 ctatgcaagt tgaagacctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
 ccagattttac ctngntaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
 agttgagtct aagacttcaa agagagaaaag actgtgtcat caagagaatc aggagtgacc 240
 atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcacactc 300
 atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
 ccttgcaaga ggtgtctcgg gtcctgc 387

<210> 19581
 <211> 392
 <212> DNA
 <213> Glycine max

 <400> 19581

tcaaatthca atttcgagcg tctcgatata tgaagggttc taatcagaca tccagtaaa 60
 aagttattgt cgtttgaatt ggttcagagc tccaacatc aatttcgagg gtttcgatat 120
 attgctggac tcaatcagac atccagtaaa aaagttattg tggtttgaat tggctcggag 180
 ctccaacatt caatttcaag cgttcgata tatgaaggga ctcaatcaga cactcagta 240
 aaaagttatt ggccttggaa tggcttaaaa cgttaacaat taaatttcaa cgccttaaat 300

atattacgga attcattcaa acttccgagt aaaacgttat tctcgttgga attgcctaag 360
aggttcaaca ttcaatttcg agcgtctoga ta 392

<210> 19582

<211> 114

<212> DNA

<213> Glycine max

atattacgga attcattcaa acttccgagt aaaacgttat tctcgttgga attgcctaag 360
aggttcaaca ttcaatttcg agcgtctoga ta 392
agatagttcc gaagaaaaac agcctcaccg tgatcaaaaa tgagaaagag gaggtaggta 110
ctactcgggt gcagaaacagt tggagagttt gcctcgacta taggagactg aaccagggta 140
ccaaaaagga ccattttccc ctgcattcca ttgacaaaat gcttgaatgc cttggaggta 240
aatctcaata ctgcttccct gatggttttt ctgggtatat gcaaatcact attgccccta 300
agatccagga aaaaaccaca ttcaatttgc ctttcggcac ttttgcctat 350

<210> 19583

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19583

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catcagtggt caagatgaac aaaggctctc tcaacttcag ggagttcttc gatccttate 120
tgcaatgatt ctccaattgc atgtgcttct ttcagtggaa gatcctccgg tagttctatg 180
tcacactggt tatgtccaac atggatacga atttcaaat agtttatata aaattccctt 240
taaatttggt aacatcaaat gtgttttatg ttaatacata tcacatggag attgggtaaa 300
gcacatggtc ctacatcaca taagaagttc cttctttatt gagaaaaaca tgttttaagt 360
tcctaaaata ggataaatta ttatataatn tgcgaccaan attatatatt ccgaactaga 420
ttatataat 430

<210> 19584

<211> 426

<212> DNA

<213> Glycine max

caacatgaact ctgtcatata acgattggca tgaaattctt cctttcatgc tgcattgcta 360
 togaacctcg gtacacacat caatc 385

<210> 19587

<211> 431

<212> DNA

<213> Glycine max

<214> 19588

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 gcaacaaata atcaaacatc aaacataatt actaataata tatagatata tatatatag 180
 ggtgttacia ctctccacc ctcttagaaa tttcatcttc gaaatttacc ttactcaaac 240
 aaggatggg gagcttctcg catctgaatt tctaatccc acatggcatc ttctctgat 300
 gcaacctccc atatacctt gaccaacgaa atctctttcc ctcttaggtg tttgttctgc 360
 caatctctga tctcaaaagg caatatttca tatgtcaaat tctccttcc ttgtacatca 420
 tccaattcaa tca 433

<210> 19588

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19588

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 ctacaatgag ttctttggat ttttgtttta gaatattagg atttataaac aactaatraa 180
 ataacaatca taggtttcat ttacaattta tatatgtaaa caaattaatt attagatcaa 240
 aattaattgt tataaaaattt attatataaa ttacagatgta ctctgaatat acataagaca 300
 ttgtagtctt atatatagcg acattaattt ttttataaca taattagcat attagtctcg 360
 ttgattagag cgaatgcaaa agtcacaggt tggattcttg caattacccat taattctaga 420
 ttcacttatu a 431

<210> 19589
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations

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 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 240
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 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 360
 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 420
 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 434

<210> 19590
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 19590
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 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 120
 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 180
 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 240
 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 300
 ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg ttttggatg 360
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<210> 19591
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations
 <400> 19591

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 tagaagaccc caagtagaat gggccacaga tgcaagagaa ggccctatgg ttcttatgag 120
 gcttaggata gattctgggc ccatgggata aatagcagcc cacttatctt tctaaatatt 180
 gctgcttctt gcttcttctt gcttcttctt gcttcttctt gcttcttctt gcttcttctt 240
 gcttcttctt gcttcttctt gcttcttctt gcttcttctt gcttcttctt gcttcttctt 300
 ataaaaattaa ttgaa 375

<210> 19592
 <211> 428
 <212> DNA
 <213> Glycine max
 <400> 19592

ttctccacta agttgcctaa tgctgaaat gtcttctcta atggcaatgg tcttagatgc 60
 agggaagaat ttttccatga acacctatt aaggctatcc cagctgaaaa tagacctggg 120
 agcaaggtag tatagccaat cttttaccac tcccttcaga gaatgaggaa aagcctttag 180
 aaagtcatga tcttcttggg catcaggggg ctccatgggtg gaacaaacaa tatggaactc 240
 cttaagatgt ttatgaggat cttcacctgc aagagcatga aacttgggct gcaaatgtat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcagaa tattgaatgc acaagctttc 360
 ataagtgaat tcaggtgcag ccatctccct aagaatcctc tcacgaggtg gaggttgatc 420
 catgttct 428

<210> 19593
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 19593

gcttctcgac atattatgcy cccgaatcgg acatccgtgt tatatgttat gaccattcga 60
 atttctcgag agcttacgat gttcaattcc gagcgtatcg acatattata tgcctgaatc 120
 ggaacccgtg gtgaaaagt atgaccattc gaattcccg agagcttacg ttatgcattt 180
 tggagcgtct ctacatgta tgcgccttaa tggacatcc gttgaaaaag ctatgaccat 240

ttgaattttct ccagagcttc cgttgtccaa ttctgagcct atcgatatgt tatgcgcccg 300
aattggacct tegtgtgaaa agtcatgacc atttgaattt cactagagct tacgatgttt 360
aatttcgacc gnatccacat attatgccgc tgaat 395

<410> Glycine max

<400> 19594

tgcataccca tgggaagctcc taatatctcc cacacttttt ggggtgggccc attcttggat 60
ggccttgatt ttctcagggt ccacttggac cccatttcta ccaactacaa aacctaaaga 120
aactatatta tctacacaaa aggtacactt ctctatatct gcatagaggg tgttcttctt 180
aaggactgaa agaacttgtc tgagatgtcc taagtgatca tctacgtccc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcctc ataaaggtgc ttggtgcatt agtgagccca aaaggcatca ctageccattc 360
atacaaacca aacttgggtct tgaaagcagt ttccactca tcaccctttt tctctctgat 420
ttggtgat 428

<210> 19595

<211> 426

<212> DNA

<213> Glycine max

<400> 19595

tatcaaggag tacgactaga tctctgttgt gaatgctgac aatgtgggat cgaaccagct 60
ccaaaacatt cacaagggtc tctgcaatga ctctgtcacc ctcatgggga aggaaattct 120
tcttttaggt gcatgataaa aaggtatgga gttccaaagt ggaaatataa gttttatagg 180
tgtgcctagc agtggataaa caaccattgt atcttaatat cagctgctcg aggcataatg 240
taggagacaa atcaaatctc ttgcctctaa aagctaaaga aggaggattt gtaacctttg 300
gtgacaacaa caaagggaga attctcagat acctctttat gatgatgatg atgtaagaag 360
tcttaaagaa tctcttctca caagtgaaaa ggtagtgaac aataaccttt tgaagaaca 420
ccact 426

<210> 19596
 <211> 330
 <212> DNA
 <213> Glycine max

<214> 19596

gaggtttttt atttattttt tttggttttt ggggtttttt ttttattttt ttttattttt
 ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt 120
 agctgtctctt ttttattttt gctgtctctt ttttattttt ttttattttt ttttattttt 180
 ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt 240
 ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt 300
 ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt ttttattttt 360

<210> 19597
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 19597

agcttgaagg tatgagacga tgagtggagt gagagggaga gaaggagcac gaaattttgt 60
 gcttcaaaaag aggtctgaac tttgaagtgt aattctcaaa tgatcaaagt tgaaaaaatt 120
 cacacacatg gctcttattt atagcctaag tgtcacacaa aattggaggg aaatttgaat 180
 ttttattcaa atttcaattg aatttgaaat tgaatttgtg gagccaaatt ttggagccaa 240
 aatttcaata attatgatta gtgaatttta gttatgggtt agcccaactaa tccaagatca 300
 agtccaagat ttttcaactaa gtgtgctttg gtgtcatgag gcatgtaaag catgaaggac 360
 atgcacaaag tttgactata tgatgtggca atg 393

<210> 19598
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 19598

agcttatttg taaactactt tgatatattt taggtatttg attttaaatt tttttaaata 60

aagtagattc agaaaaataat tacattttatt attatttttga ttaactttctg aatatgggtgt 120
 aaatctttatg tgtgtctgac atatttaaaca agttaacgtc taattttattt gattagaata 180
 tgaatctgtc taaccaaatt aagatgttta ataagtaagt ttattttaagt atttttact 240

<210> 19599
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19599

tgaaggggggt tttaaattaa tgggtgtgac ttatggttat taaatggtta tgttcgactc 60
 ggaatgctaac cgtatagaacy acatcaatgy aagacogtgy atgatgttcg attattatct 120
 natggttcat ccattggactt caaaatttctt ggtgacagaa gcaacaatag accaaacott 180
 ggottggatc cgtttttccaa gtctttggat ggtctatcat gatgagactg tattactgac 240
 cttggcatca actattgcaa caccatcaa ggttgatcta aacatcttga atatgpatag 300
 gggaaagttc gtgcgattat gtgcataaat taatctcaat gtctttgtcg tgggagattt 360
 tgcacatcatg gaaatcggtt taatatagaa tatgacgcgc ttcattttct 410

<210> 19600
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19600

agctttcttgt tttttgcatt aaacgacaag aaaagatact agtatatgaa tacatggcta 60
 atggaagcct acactccttt atttttggta cgtaatatga agaatgcttt cataattoga 120
 ttaagtggac ttgcatgttt gcttgtctgy tttgtttttt aattccagtc acaatttagcg 180
 gotctttaat cttgaatata ttatattgaa tgaatagctt gottttgtcaa atcacagata 240
 aaataaaggg taaatttctg gatggcctc gacgcttcca cataatatct ggaataaactc 300
 gaggacttct gtatcttcat caagattctc gattaaagat tttccataga gatctcaaad 360

caagtaacgt tttacttgat g

381

<210> 19601
<211> 436
<212> DNA
<213> Glycine max

gtaaaaggta gggttggcat gttttcaag ccgtaactaa ggcatacaat tccatataat 120
aagttgaata gttaagggtta ggaccactta acttttcaat aaaataagca attggatggc 180
ctttttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
atttttgaaa gtttggcaac gcaagtatgg gggcattagt tagcttttgc ttaagaacat 300
tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac attttttctg agcaattcat 360
tgagaggtgc tgccaatgtg ctaaaatcct tcacaaaatg tctataaaaa cttgctaagc 420
catgacaact cctcac 436

<210> 19602
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19602

ctgttgcgaa ggtgccccaa ccgtaacttt gatgatgctg cacaactgca tatcttttat 60
agtgggttga aacctcaaac caagatgac cttgatgcct cagctggagg caatatgatg 120
tccaagagtt cggaggaagc tattaatgta atctccattg gagcttgtag gactaggata 180
ttcttcatca atggattcct ttgcttcttg gaagatgaat gtcagcggaa tggagaagga 240
agagagagag gagaagccac ttcaaggaga agatgagttt agaagaagct caccaccata 300
agaggccatg gataacagcg tggaggaaga acgagatgaa tgaagggaga gggagagaag 360
agcaagatat ttgctgtca taaagagctc tgaaatctga agtttaatat tcanatgac 420
aaa 423

<210> 19603
<211> 431

gttttcaaag cacatccatg aacacttttc ccaacctcaa aattgttcgg tctaaacccc 300
 ataacctca tctggcagaa aagtagcaac gaattttcat ggcagtaatt ctccagcatag 360
 caagccatca tccagttcca agataccatg cccctacaac aaatcccatc ataaacttgg 420

<210> 19608

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19608

ajcttgaagt gatctctatt ctgatgtgtg tggctctttt gaagtgaat ctctaggagg 60
 ttaagttac tttatgtcat tcattgatga atttactaga aaaatgttga cctatctcat 120
 ttaagtagaaa agtgaagtgt ttaacatttt taagaagttt aagctgttga gtgaaaaaca 180
 aagtgtagat gcaattgget ttgatgtttt gatgatgac atgatgatgt gttgcaattg 240
 atgcaaatgg gcttttcaa attaaaaattc aagacaatac tccaagatta caaggcacia 300
 catcaagatg atcactagaa tattangaag ggaattccta attgaattag caaagggttg 360
 gccaagtgat tacaataaaa aagtgttttt cacagctttt acctctctgtt aatcgattac 420
 cagaagatgt aatc 434

<210> 19609

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19609

agtttcttat tcaaggcaca ttcttgggtg cgaagctcct tcttccatgg ctctattcct 60
 agtggatggg gcctctcttc acctcttttc ctctgtcttc cgtgtgaatct ccatgggtgaa 120
 aaatcaccat tgaatgaagc tcaaagatcc agcctccata gaagcttcaa aagcaagctt 180
 ccatcaattt ctctcctctt ccttccactc atcttctcct accttcaagg tcttaccat 240
 ggtctctcat gttggtgagc ttttcttga ctcatcttct ccttgaagtg ggtcttccaa 300
 tcatcttctt tccatctcca tctctctacc cttaaacttc aaaaadcaad ggaatccatt 360

gatgaagatg atccaaggcc tatatgctcc acattgagtt acattacgaa atatacttgt 420
 ttgacaatgt agacaattac 440

<209> 19610

<210> 19611

<211> 426

<212> DNA

<213> Glycine max

agcttctgga aggagttcta ctgatgttc tatgctctt gaaggtggta gtccatgagg 60
 aatctccata ggaaagacat ttttaaatto ctgcaataag ggttgaacac taggagaaat 120
 agaaatagta aactcattag aattatgagt agaaatttta ctgtctttgc aatactgtag 180
 attgagtggt tcatgagcag gtaacatttt cctcacttca ctgcctctg caaaataatt 240
 aactttctc tcatgtgtat cactctcttc ctgggtgta tcaactcttc tcatattcct 300
 ttgtggcgcc tcaactatttt cttctctctg atctctctct tctctcattc tgatttgagc 360
 atcacacact tctctaggng atagatgttt aagagt 396

<210> 19611

<211> 426

<212> DNA

<213> Glycine max

<400> 19611

tcagaattca atttcgagcg tctcaataga ttacggttac tcaatcagac atttcgagcaa 60
 aacattattg tcgtttgaat tagctcagag cttcagaatt caatttcgat cgtctcgata 120
 tattacgggt ctcaatcaga catctgagta aaaaagttat tatcgttoga atttgcagag 180
 agcttcaaca ttcaatttcg agcgtctoga tgttttatgg gaattaatca gacatccgag 240
 taaaaagtta ttgcggtttg aatttgcga gagcttcaac attcaatttc gagcatctcg 300
 atataattac ggactcaatc agacatccga gtaaaaagtt atcgctgttt gaatttggtc 360
 agagcttcaa cttcaatttt ggagcgtata catatattac gggactcaat cagacatccg 420
 agtaaa 426

<210> 19612

<211> 283

<213> DNA
 <213> Glycine max

<400> 19612

ttcgaacccc gacataaga taccggcgacg ctcgatatag tacaacggag atgctcaaga 60
 tctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc 120
 tctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc cctcctcctc 180
 agaaattcaa atggtcataa cttctcccac ggaatgtctga atc 283

<210> 19613
 <211> 432
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations

<400> 19613

agcttgcttt tgcagtaaag catgaaagac atgcacaaag tctgactata tgatgtggca 60
 ataggggtgta gtaagcaaat gctcacctcc cctctaaaa ttttaattgga ttgggcttct 120
 accaattcaa tttaaatttat ttcccaacac acatatcaaa tattcactta gtgcatgtga 180
 aattacaaaa ctacccttaa tacaaaaact agtctatgtg cctctaaaata caagagctga 240
 aaaatcctat atttctaggg taccctacct acattatgga gccctaaata caaggaccaa 300
 atataatgac atcctagtct aatatgtata aagataattg gactcaacct tggcctgtgg 360
 gctcagacat ctaccctgag gatcatgaga accctanggt cttcttcacc agctatagcc 420
 caatcctctt gg 432

<210> 19614
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19614

tatcataatc gattacatag ttgtttttgt gacaattatt gatttattta ggagtctctg 60
 ttttaattga ttaccatgic atataatcga ttacttttct ttttataagt gtctcagaag 120
 taaacaagaa cactttaatc gatttctttg agtatctaat cgattacatt gtctcttaag 180

tgtttctagt tttttggaag aacactacaa ttgattgaaa gataatataa tcaattactt 240
 cattgaatta attaattacc ttgtagattt aattgattac aggcgggtat aactgttttc 300
 totataaata accacattgt gtctctctta ataacataac attttgagct tctgaaagag 360

<211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19615

agtttctata aaattgaaac gacaaaaatt tttatctaag atttccgaat aaattccgta 60
 gtatatcgag acgctcgaaa ttcaaaaata accctctcagc aaaatgaaac gacaataact 120
 ttttactoga atgtccgaat gaatcccgta atatatcgag acgctcgtaa ctgaaaacag 180
 aagctctgag caaattcaaa agataataac tttttactcg taagtcgat tgtttcctgt 240
 agtatatoga gaccctcgta attgaaacca gaagcccgta gcaaaactca accggcaataa 300
 atttttactc ggatgccga atgaatcca taatatatcg aggcgatcgt aattganaac 360
 agaagctatg agcaaatcca aacgacaata actntntact cggatgtccg aatgaatacc 420
 atntaaatcg gat 433

<210> 19616
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 19616

tctggtatca attacgagcg tctcgatata ctactgttac ataateggac atccgagtaa 60
 aaagttatta tegtctgatt aggetaagag cttgtgtttt gaatttcgag cgtcttgata 120
 tattacagga ctcaatcaga aatccgattt aaatgggtatt cattccggaca tccgagtaaa 180
 aagtatctgt cgtttgaatt tgcctcagc ttctgttttc aattacgata gcttcgatat 240
 attatggcat tcaatcgagc atccgagtaa aaatttatcc cgttttgagt ttgttaacgg 300
 cttctgggtt caattacgag ggtctcgata taatcacagga aacaatcyya cgtacagata 360

acaagttatt atcttttgaa gttgctcaga gcttctgttc tcagttacga ggcgtctgat 420
atattacgg 439

<10> 19617

<11> 363

<12> DNA

<13> Glycine max

agtttgctat tgaattattn gattnacaggc cagggataat ttccattaac ttggacetta 60
agaggggtgc aagtggcagg ttcttgaaga ctgctgctta tggccacttc ggaagagatg 120
acccagactt cacatgggag gtggccaagg ctctaaagtg ggaataatgc catgaataaa 180
gttgattgdc aagaaactat gtttgatctt atatgctttc atacctaaaga tccgtgatat 240
gattttgect tagcttttgt atctttataa ataaataaaa catatatatg tccagttgag 300
tatatgaaca taaaaaggaa gctgcatagc agcatcaatg tactattgga agttaatgtt 360
tgagatatat ccgttacgat cgttatccat tatccattat gtttctcttc aattgctgag 420
agtcttagag aatcttga 438

<10> 19618

<11> 363

<12> DNA

<13> Glycine max

<400> 19618

gggagggcga cgcgagactc acgggtgggt ctcccaagaa aggaaaatgc atggagtgc 60
caccacggtt tatttgggga aaacatccga aaaaccgaaa aagacgtggc ctacaaactt 120
taagtgtgag gctcgagagt tgtattttacg caccgggaag gtattatcac ctgttagaca 180
agtggectca gatattctaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc 240
taattaaaaa tctattttat tttttactca agttataaat tcccttaatg acaatcttct 300
taaatattaa ttcaaatgaa gcaacttgaa tatgattata tagcaataat atatatagga 360
gat 363

<10> 19619

ntcatatcac ttggatgctt cattgcttca aataagtcca atgatacttt ctgactctcc 60
 acaccaatt ctaacttggc ttccccata tctactatat agttggccat gaaatttgta 120
 gggctctctt ctatatccat aaccacgaaa tctgcaggaa atacaagctg cttgaactga 180
 tctctctctt cttctctctt tctctctctt tctctctctt tctctctctt tctctctctt 240
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 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 360
 tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt tctctctctt 420
 gtactacagt tac 433

<210> 19622
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19622

agcttatgtg aattcgtagt tttataagca aagagtaaaa atttatcata ataaaaagct 60
 ttcaaaaaaga attttcagcc tagccaacag gtattgttat ttaattccaa attaagattg 120
 ttttcaggta agctaaaatc caagtggctt ggaacattca gcacaaaaga agtttatgcta 180
 catggagcaa tgataattgg aggatccagc caccaaaaaga acatgcatcg tgaatggcag 240
 tagaatcaaa cctacttan gtcgtgattt caagagggtg accactgttg tccaaactaca 300
 agaggctnga accacaacaa ggatgtccag cttanacgat gttaaataag cgctcttggg 360
 aggcaatcta gtatttttca actcttcttt taatattnnn tttctgatta cgtaattgtg 420
 ttgtgtaata tcta 434

<210> 19623
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 19623

ctaggaggaa gcaggacatg gacgtcagtt taactgttag cttctgcact tctaaacat 60
 tggtaggatt gtgaatcact agtatgtttg tgcatttgta ggggttggct tctattcctt 120
 gatgtctaatt catgaacccc aagaacttcc caacggctac cccaaaagtg catttttcca 180

ggttgatggc catgaagtaac ttatggattt ctctgaacac ctcttctaag tatgccacgt 240
 gttaggctat gctttgagac ttgacaatca tgcctcaac ctgaccttg agattttttc 300
 tcatatcttg ttttcaatc cgtctatca gcttcaata tggggtggtt acatttttca 360

<210> 19624
 <211> 427
 <212> DNA
 <213> Glycine max

<225> unsure at all n locations
 <400> 19624

nnaacataaa gaacaaaaga ctggcctctg cagcaatatt atacattgag caaacaacac 60
 tgatctcaaa tgggtgataa aattctaatt aatcgcaatt ggaagcttca taacatttaa 120
 tttggataag attttatatg taattattat ttactttgtc aaataacaaa cttaattgtaa 180
 caatcttate attagatagt cattgagaag tgaatagaat gaaatgcate ttatttggtt 240
 atttaatttc acctttttca ataactaaaa tatgtataat gttttctaac tcccgttcta 300
 tctttaaaat gtatctact cgaactagtt ccttgggcat ttatttatatg ggtatttaca 360
 agtttaaata aattttaaaa ataagaatta tatgaaaata tcattattgt tcaataataa 420
 atatcat 427

<210> 19625
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 19625

tctgcttatg ctgcaaatat ttacaataga cctactcaac ctccagcagca caatgaacca 60
 cagtagagca attatgacct ttccagcaac agagacaacc ctggatggag gaatcacctt 120
 aacctcagat ggtctagccc tcatgaacaa caacaacagc ctgctcctta ctccaaaaat 180
 gctgctggcc caagcagacc atacattcct ccaccaatcc aacaacagca acaacccag 240
 aaacagccaa tagttgaguc ccttcacaaa ccttcctctg aagaacttgc gaggcgaatg 300

actatgcaga acatgcagct tcagcaagag accatagcct ccattcacag cttaaccaat 360
 cagatgggac aattggctac ccaattgaat caacgacagt cccagaatto tgactagctg 420
 cttctcgaag ctg 453

<11> 19626

tgtcttcaac aaacaaatca aaatcaattt ttgtatttc aaaacttagc tccagcttcc 60
 tttcccccac atcaactatg cagcttggg taaacatgaa tttcttccc aatattatag 120
 ggatgtcaat atcttcagag acatccatta ccataaagtc tacggggaag ataaaatatt 180
 ttaacttgac caaaacatct tcaattactc catatgaact ggtaattggag cggtcacaata 240
 attgtaaagt cattcaagtg gggcatttcc aactctccca atctctgca catggagagt 300
 ggcacaaaat tgatactggc tcccaggtca ataagagctt tctctacatt gacttctcca 360
 attgaacaag gaatcgttac actcccagga tctttatgct tgggtggaag gatcttcta 419

<110> 19627

<111> 429

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 19627

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 ctcaattagc ttagtgtctt ctccgggggt ctccaacttt attttttccc ctgcagaagc 120
 atctagtagt tgtgtggttt gtggctctca cccatctatg aacatattca attggattgg 180
 ctctgaaaaa ccatgggttg gagttctctt caataaaact ctgaacctct ccaatgcttc 240
 actcaagat tcatcagga actgatgaaa tgaagatatt gcagcttccc ctccacagt 300
 cttggactct ggcaagtatt tctttaggaa ctnttcaaca acctcttccc aggttttttag 360
 actgttacct tttagaggagt gaagccact ctgggctct cctgccaatg agaattgaaa 420
 taggccgag 453

ttcagccaat tcacccgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60
 aagagagcgc tcgaaattga atgttgaagc tctgaactag ttcaaacgac aataactttt 120
 taatcggatg tctgattgag tcccgttaata tatggataag ctcgaaattg aatgttgaat 180
 tctgattgag tctgattgag tctgattgag tctgattgag tctgattgag tctgattgag 240
 tctgattgag tctgattgag tctgattgag tctgattgag tctgattgag tctgattgag 300
 cccctggagc atattcaaac gacaataact tttttctggc atgtttgatt gattcgggta 420
 atatattcagag 480

<211> 19631
 <211> 415
 <211> DNA
 <213> Glycine max

taagggtcct tagtggcata atcacacatt atattttgta cctctaaaaa tatcatatga 60
 tataagaatc aaacttatat aatttcttac caactaaaca tgtgatgatt aaagcctatg 120
 aataatattt taatttcttt attagataat aataataata ataaatatcc ttgaatacat 180
 cgtctcgaag ttgcatacat acgtagccac aaataaatgt tacatatgta aatttatatc 240
 cagtaattct aaagaataaa taatcttttt aaaaggacaa ttttgatata ttcatatatt 300
 tttaagttaga tataattttt aaaacataag atgattatag gtattttgct agatatcata 360
 tagagataat gatataattaa agttgatgta acatatcctt gcctaagtga tcaact 415

<211> 19632
 <211> 351
 <211> DNA
 <213> Glycine max

ttccaagctt gccttgcctt ttgatataat cgagggactc atgggtcacta tgaatgacaa 60
 attccttggg ataaaggtag tcttgcctatg ttttcaaaag ccgcactaag gcatacaact 120
 ccttatcata agttgaatag ttaagggtag gaccaattaa cttttcacta aaataagcaa 180
 ttggatggcc tcttgcctc aacacagccc caatcccaac atttgaaaca tcaactcua 240

tttcaaaaaga tttttgacaa gttgggaacg caagtatggg ggcattagtt agctttttgct 300
 taagaacatt gaaagcttct tcttgtttct ctecccatgt gaaaccaaca t 351

<210> 19633

<211> 100

<212> DNA

<213> Glycine max

<400> 19634

<211> 100

atagctttgt ccccaagget tcatgtagac ttgtccttta tegttaagng aacctcggat 60
 ccttatctaa tacaatacta gaaggaatto catgcaacct tactactccc ttgatgtaca 120
 actccactag cttctacatt ctatacttca tattcaccgg aataaaatga gcagatttgg 180
 tgagtcgata tactatgacc cacacaacat catgtccacg actagtcttg ggtaaaactag 240
 atacaaaato catagataty ctctcccat tccattccgg aatttccaat ggtttcaatt 300
 cctctgatgg tegtgtgtgc tcagccttag cgttttgaca tgtcaaacat cttgttacct 360
 attcagctac atctttcttc atgcccctgc caccaaaaat tctcttcaaa tcttgytaca 420
 tcttagtcat t 431

<210> 19634

<211> 327

<212> DNA

<213> Glycine max

<400> 19634

gaatctgtac ttcctaagag ggagcgccac ccactccaag tcattacaaa ctacctcatt 60
 tcttctctta tagcccttag ccgaatacac cttcgatagg gtctctatct gacgcttaac 120
 cctctccatgc aacttgttta caaactctga cctacattac ccttctttat gtataaaata 180
 agtgctcagat gggaggggaa tgatgtctac aggcgactag ggattgaacc catagacaac 240
 ctcaacacga gatagcttga tggttctatg aaccccccta tatgaggcga agtgtacatg 300
 acgaagatac tcttcccaag acttatg 327

<210> 19635

<211> 450

<212> DNA

<213> Glycine max

agcttcgttta ttcagctcta gtgctggacc ttgccgtgac tttttgcttc ctggaccacc 60
atgatatcaa gtttgagcca agaaagatag ctgctcctga tgtggaacgt ctttcaccaa 120
tatctgatgc ccaatcaaca tcatagaaaag catagagtgc catacgttgt gaaacagaag 180
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc

<210> 19638
<211> 423
<212> DNA
<213> Glycine max

<400> 19638
taacacccgat gactatccca acatagctac tgagtatgga atcagaagca tatcaactgt 60
tttgttcttc aaaaatggag aaaagaaaga aagcgtagtt ggtgcagttc ccaagtccac 120
tttgtccgca acagtggaga aatatgttga tgtataaaat ggaaaggaag aaaatgctat 180
aacaaggaac gcttgatcat aaattatgga ccactttgct tttaatgggt ttcaaacatt 240
caaaaagtac ttgtatcca catcttttac aacatttggt aaagattaca ttgtataaat 300
tccctcttct ctctctctgt gtccctctcg ccatacatta cagttcactt cgcctaatc 360
tcctgccaaag ttaatttggc accattactc caggtttggg agtaaaactga aatttcaatg 420
tct 423

<210> 19639
<211> 426
<212> DNA
<213> Glycine max

<400> 19639
tgaagggtgt tagcccaacca tcttttcata gtagaattct gggtatgtgt ctactatcat 60
tgtcatcatt tttttctctc gtcattgagg tgcacttga gctgccaggt ctctccacct 120
ttggcgctat tttttgaaa gatctgtgcc ccttttttgc acatgttttg tagttgcac 180
ctatccgaag acattatact aacaatgcct aacgaaggca accactaggt cctttcaaga 240
atggaactcg gaaacttcca agtlaqtga ccaggttaaa gctacccag taavacttct 300

ttggaaggaa tgtatcaaca attctctcatc ttttgcgtat gcccccatct tccgataata 360
catcttttaga tggttcttgg ggcaagtagt ccccttgtag ttgtcaaagt ccagcacctt 420
gaactt 480

Glycine max

<223> unsure at all n locations
<400> 19640

taagaataac atnnttttta atttggtttg attggaataa tattttatta tatatatatg 60
tgaatatataa aaatagaaaa aaataaaaaa gtataaacta cgtacaaaaa taaatgtacc 120
acagaaatca tatactttta aatgtttaat attcatttat attacatcaa ttttttttaa 180
aaaactaaca actaaattga ccgaaaatta catcaattaa cataattgga gtgtgaatgt 240
gtacaaaatg aattaattgt aattagataa tataaattat tcaaataata aatgcttcat 300
ataaatttgt gtatcattat ttttaggttt tcatagttct aagtgttttt actatttaaa 360
attattcacc attttcacct ttttttggtt tactaattaa tatgtttata ttatatattt 420
cactcaccat ttttaattg 480

<210> 19641
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19641

agttttattt ttttataata agagaacaat gacaattgaa gagttgattc atgtttactt 60
tgatgagttc aatgtttttt ctccaagaaa ggatatttta gatgatattg cagaatcttt 120
agaacaaatg cacattcata gacaagattc taaaggaaaa agagaaggaa gcaatgaaga 180
tcttcagta gatgtcaaag caaataatga tcttccaaga gaatggaaaag cttanggaga 240
tcctcccttt gacaacatta tgggtgtagc ctcaaaaggg gtaacaacta gacactctct 300
caaataattt tccaataaca tggcttttgt atctacgata gaacctaana atctaatga 360
aaccataata gatgcaaatg gataaagag tatgcaagaa gaaactatad caattt 420

<210> 19642
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 19642

tttaagtaaa atttaagttt tggattttta atgattttta attttttt tttttttttt 100
 ttttagtttt gaattttttt ataatattaa accctaatia gtttaagttaa cataaacctt 180
 aatttagtcaa atacacataa accccaattt gtttaagttaa cctaattagt taaacaccca 240
 taaaccccaa tttttcatgt atcccatgaa tcttaaattt tcaaataccc ctaaattagt 300
 attaatcaag taactctaaa ttgtctcata atcctaaaacc ctaattgggtc aagtaacact 360
 aaagottaaa ttttcacata cccataaacc ctaatttaagt caaataaacc taaacctaatt 420
 ttgttaagta acac 434

<210> 19643
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 19643

taaactaaat tttagggcat gttaggccca fgctattgtg caacacttgg gcaacacttg 60
 agaatcccaa tagcaagcta ttgtgttggc ctcttccctt caaaaaagta atttaataac 120
 atgtgaatca ttgaaccaca tatcagatat taatctgata agaacagata ctacactcga 180
 tcttagccaa aaggccgaga aaggcatgag ttgcaatgtc ttgagagggt ctctttatac 240
 cgaacatca agtcattgtt atcttttcta agcgatgtag gatttcaatc acagtttaac 300
 attgacatt gatataattc atgctcgttg gtgcaaacaa ggggtgatttt gatgaatgca 360
 ttgaattaaa aagaaatcat gtcgagtggg ttgtgagacgg catgtttcttg ttctgtgttg 420

<210> 19644
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 19644

tcttagtttc agatgatgca catgagtttg tagctacctc atgcactcct ctaatgacta 60
 tagcatcatt ttctggcgcta aactgttggg agttggaagc catctctctc attaaattcc 120
 tgggttcagc aggggtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
 tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
 aaagtctctc ctaagaatact ctcttgaggg atcccagctc gtgatgga 408

<210> 19645
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 19645
 tctaatacat taacacatata ctgtaatcga ttaccagagc agattttcag aaaatattct 60
 caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120
 ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatact cttaaaaagc 180
 aaatcgtttt atctctttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240
 atttgagtac tcaaattggt caatctatct ctttcaagag agattttctc ttctcttctt 300
 ctctattctg aaaagggatt aagagaccga ggtctcttg ttgtgaaaga attctaaaca 360
 caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420
 actctcaagc 430

<210> 19646
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19646

agcttcaaca tcagaccact tccaggytgc tggaaactact tcacatggac ttgatggggc 60
 ctatgcaagt tgaaagcctt ggaggaaaaga ggtatgccta tgttggtgtg gatgattctt 120
 ccagatttac ctgngtcaac ttatcagag agaaaacaga cactttgaa gtaacaaag 180
 agttgagctt aagacttcaa agagaaaaag actgtgtcat caagagaatt aggaatgacc 240

atggcagaga gtttgaaaac agcaagttta ctgaattctg cacatctgaa ggcactcactc 300
atgagttctc tgcagccatt acaccacaac aaaatggcat agttganagg aaaaatagga 360
ctttccanga

19643 19647

<210> 19643
<211> 400
<212> DNA
<213> Glycine max
<400> 19647

tgttaggcctt ggatcttctt catcaatgga gtcctttgct tcttgaagat caatggcagc 60
agaatggaga aggaggaaag ctgattggag acgccacttc aaggagaaga tgagtcaaga 120
acaagctcac aaccatagga agccatggat aagagcttta aggtagaaga tgagtggagg 180
cagaaggaga gaaggaacac aaaattttat gtcccaaaty aggtcagaac tttgaagtyt 240
aatteccaaa tgatcaaagt tgaaaaacta cacacataag acctctatct atagcttaag 300
tgccacacaa aattggaggg aaatttgaat tctattcaaa tttcacttga atttgaattt 360
gaatttgtgg agccaaattt ggagccaaaa tttcactaat tatga 405

<210> 19643
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19643

tattattggt tggagtttaa aacctgaaac tcatgagagg tagtaagaga agaggaagca 60
tgcatgata atgatgatgg gccttacctt gggccttggg ctcatctgtg gccccaccaa 120
cggagtacct cgggtaacac ttcctgagaa acatgtcaac gtaattcctt gtgcctgaat 180
cgtctctcag gggcagata gcctctgcca cgcagtcctg gaactccttg tagctcaagt 240
cgcctgtgca ctggccacg ccgtgtaccc caccggaccc accgaacgga aagttccca 300
cggcgggggg gactccggcg agcagggctt cgcgctctcc catggcgttg gnttctaac 360
cgaacacagg ccgcacttc ttcagcaaca ccgtc 395

<210> 19649
 <211> 416
 <212> DNA
 <213> Glycine max

<214> 19649

<215> 19649

ttgataaa tttatattt gatttcaatt caatcaata tttatattt gatttcaatt 120
 atggaattt tttatattt aaaggaatt ggggaact ctgatacaag gttttcaatt 160
 ttgtatccct ctttattttt tttcatttta cagatatgat ttgatacaag taaataggga 240
 attttctcag ctgataatta aggattatac acattattag ttggttatgat tttttatatt 300
 gtaactttga ttcatattaa atcagaataa catgtgcaac acaactacat aattacagta 360
 aataacattg ttatattgag taatattctg agtgcctgacc acaactacat aagtgc 416

<210> 19650
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 19650

tgaatcggac ctacagtgta aaagttatga ccatttgaat ttctcgagag ctttcgttgt 60
 tcaatgtcga gcattctgac atattatgag ctogaatcag acatccgtgt gaaaagttat 120
 gaccatttga atttctcgag agcttccgat gtttaatttc gagcctctcg acatattatg 180
 cgcctcgaat ggacatccgt gtgaaaagtt atgaacattt gaatttctcg agagcttccg 240
 atgttgaatt tggagcctct cgacatatta tgcgcctcga tgggacatcc gtgtgaaaag 300
 ttatgacctt ttgaatttct cgagagcttc cgatgtttta tttcgagcga ctcgatatat 360
 ta 362

<210> 19651
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19651

ttgngactat ttacacaatt taacaagaaa caa'gaagga tcaactgtga aaattaatg 60

catccacata cctagatctc cttctaaatt ccacccaatt tatatatggt taaatgcatg	130
gaagcaagga tccaagacta gctgtggatc ttttatgggt cctgatgggt gttttttgaa	140
attctattat attctcatt tccctccccc acccctccca catcccaaa atgcattttt	210
ctctctggtt cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	270
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	330
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	390
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	450
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	510
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	570
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	630
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	690
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	750
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	810
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	870
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	930
ctctctctct cctctctctt cctctctctt cctctctctt cctctctctt cctctctctt	990

ttttggagggc ttgtatgtca tgttgtacat aagcatagggc agaacgaaat ccnagggat 360
gaaaccaatg gcaccaacca caccgttgat gtctccaaaa aatggcagca tagctgccac 420
1 1

<210> 19654
<211> DNA
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19654

tattctgagc atgattctct ctaatttcca tgcctaaaaat ctcttttagtt gctcccatat 60
ctttcatctc aaattcaacta ttaaaaagtg acttcagttt ccgaatttca aacttctgtc 120
aagatactat ggcatgtctg tccacataga gaagtagata aatgtatgca ccctcttcca 180
ctttactatg ataaacacat gaatcatatg gaattttatt gtaacctatg gagataatta 240
actaatcgaa tctcttgtac cattgtcttg gagattgctt caatccataa agagaccttt 300
acaacctaca aataaaatct tcttttctt gcacttcaaa accttttggt tgtttcataa 360
aaattttctt cctccactat tccatggaga aaangttggt tcacatcaa 409

<210> 19655
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19655

tgtcccaagg attcatactc ttttaacccca acatagatag gcttctggat ggagtttttg 60
aatgcagttt gataccataa ggaatcataa cctccaatta aacttagaaa aatgattttt 120
caaagtacat gctgagaagt tcttaggttt tatgttgaca aagaggggaa ttgagggtaa 180
cccaaataaa tgaaggcca tcatgaaaat gagaattcca agaacygtca aagaagtga 240
caactcatag ggaagatcat gtccctgtct tggttcttat caaaatcgac agagaaggaa 300
ctccctcttg ctaagtgaat tgggaagaac aagcaattcc aatgggtgct agattgtgag 360
aatgccttca aacaattcaa ggaattctc acaacaactac ccaatttaac aaatcccaaa 420
tcgaaagggt ctatactg 439

<210> 19656
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19656

ctttagaggt tgggtacatt ttttttccac acatctagaa tcaaggatt ttttttttgc 60
 ttatggtaact caattggg tttgggtgacac tctgaaagta tccatagcat gcaggtagat 120
 gggttaatac caggaatgtc tgctaaagtc catccaatgg cctttctgtg cttcttgagc 180
 aacggcaaca acttctctct ttgtcaaca tcaagggaag cagagatgat cactggaaat 240
 ttgatgaat cctacccgcg aagggcattg gatagaagac tccaagtaga ttggggccaga 300
 gatccaaggg aaggccctag ggttctcatg agccttaagg tagattntga gcccatgggc 360
 taagtatgag ccagcttctc ttgttaatta ttagaat 397

<210> 19657
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19657

agcttatagt cactacttgt taagaaccat aagccagagt cgattgttcc ttgataaag 60
 tgaagaattt gttttgcagc cttgaaatga gtagtgggta gagtctcgat gtattggctg 120
 atgagtactc cagtagcata tataatgttt ggtcttgtgt gtcaaatatc ataaactacc 180
 caccaaaactc ttgaaatcta tagcatccag tttttctgtc tccgcgaact ttgataactt 240
 cattntgcac tccatcagtg ttccaattgg cttgcaccta tccatcttga atntattaag 300
 catcttcttt gcgtagcttt gcagtgaat gaagatttca tcttctttct gcntacctc 360
 aatggcaaga tagtatgaca tttttccgat atcggtcac tcanacttct tcatcatttc 420
 tttcttanac tctgataatt gt 442

<210> 19658
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 19653

ttggagcctc gaaatgatta gaggctagag tctctatgta taggctgatg agtactccag 60

caactatata caatctatct cctctctatc caaatatcat caactaccca caataactct 120

ctctctctct cctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 180

ctctctctct cctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 240

ctctctctct caataaataa caataaataa caataaataa caataaataa caataaataa 300

ctctctctc 308

<210> 19659

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19659

agctctcttat ccaaggctca tcttggtggt gaagctcctt cttccctggc ttattcccta 60

gtggatggcg cctcctctca cctctctctc tttgtcttct actgcctctc catggtggaa 120

aatcaccatt aaaggacctc attgaagctc anagatccaa cctccataga agccccacaa 180

tcaagcttcc atcagttgta gacctctaag accaagaaaa gacagcttct acatgtcctt 240

ttgggtgttt tgcctattgc cgaatgcat tgggttatg taatgctcct gctaggttcc 300

aaagatgtat gatggctatc tttgctgaca tggtagagaa gtgcattgaa gtctttatgg 360

atgaattttc agtctttggc gcatctt 387

<210> 19660

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19660

tgtagcaaat gcaaacggca ataacgtint actcggatgt tggattgagt cagctaatac 60

atcgaaacgc tcgaaatcga aaacagaagc tctgtgcaaa ttcaaacgac aatacatttt 120

aactcggatg tccgattcag tcccttaata tatcaagaca ctcgaaattg agaataaaaag 180

ctctgaacaa atcaaaacga caataacttt ttaactcggat gtccgattca gtccagtaat 240

atatttagac actcgaaatt gagaatagaa gagctgagca aattcaaacg acaataactt 300
 tttactcgga tgtccgatgg agtcccgagc gtctcgatat attatgggcs taaattggac 360
 attcaattca aaactatca caattttaa tgc 399

<210> DNA
 <211> Glycine max

<223> unsure at all n locations
 <400> 19661

agctntaact cggatgtccg attcangcgc ataatatato gagacaattg atattgaata 60
 acagaagctc cccagaaaatt cgaatggtca taacttttca cccggatgto cgattccgggc 120
 gcataaatatg cccagacgct cgaattgaa caacgggaagc cctccagaaa ttctaattggt 180
 cataactttt cactcggatg accggatcaa ggcataata tatccagacg cccgaaattg 240
 aacaacggaa gcttcgcaga aattcaaatg gtcataaact ttaactcaga ggcccgatcc 300
 atgggcataa tatatcgaga cgttcgaat tgaacatcgg aagctctcta gaaattcaaa 360
 tggtcataaa ctttcacttg gaggtccgat tc 392

<210> 19662
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19662

agcttatggt gcaaacattt aaaatagacc tcttcagcag caaaaccaac aacaacagaa 60
 taattatgac ctttcaagca acagatacaa tccaggttgg aggaatcctc caaatctgag 120
 atggacaagt cctccacaac aacaacaacc tgtccctcct tttccagaat gttgctggto 180
 caagcaagcc atatgttctt cctccaatgc agcaacaaca gcagcagtca caacaaagac 240
 aacaaggaac tgaggctcct cctcaacctt ccttagaaga gttagttagg caaatgacca 300
 tccagaatat gcaatttcag caagagacaa gagcctccat tccagagtctg acaaatcaga 360
 tgggtccagat gctactcag tgaaccaag ctcagtcaca aaattctgac aaattgcctt 420
 ccaaaact 428

<210> 19663
 <211> 358
 <212> DNA
 <213> Glycine max

<220> 19663
 <221> 358

attttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 agttagggg ttggaattat tttttttttt ttggaattat ttggaattat ttggaattat 120
 cacatattca catatatctc atttatgatt acttattatg cacataactg tctgtccatc 180
 taagaacacac tctgacagat cacccaagca ggttgaatat tctgggggag gaactaggata 240
 ctctgcaggg caatatgata cccaactact ctcttctgca ttggaagctg tggatgcata 300
 tatattgata ttttaggtaa taagacctgc tatgagtact ccacatacac atgctctc 358

<210> 19664
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19664

tcaacattca attntgagcg tctcgcaata ttacgggact caatcagaca tccgagtaaa 60
 aagatattgt cgcttggtt ggctcataga atcaacattc aatatcgagc gtctcaatat 120
 attacgggac tcattcagac atccgagtaa aaagttattg tcttttgaat tagctcagag 180
 ctccaacaat caatttcgag cgtctagata tatgacgaga ctacgtcaga catccgagta 240
 aaaagttatt gtcggctgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 300
 atatgacggg actcaatcat acatccgaga tgaaagttat tctcgtttga atttgctcag 360
 aggttcaaca ttcaatttcg agcgtctcga tatatgacaa gactcaatc 409

<210> 19665
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19665

ttatgcgccc gaatcagaca tccgggtgag aagtcac

397

<210> 19668

<211> 430

<212> DNA

<213> Glycine max

<400> 19668

ttatgaata caatacactc tctctaatc gacttcacat ccttcacaa cttctctc
aggttccca aagaagctag agtttaacta caataccctc tctaataget aggttcacat 120
ccttgagatg agaagctaga acttagctac acacccctca tagtagctaa gctcaccctc 180
atgacaaaact acatgagaat acgaaataaa tccctactac gaagactact cagaatgctt 240
cgaatacaaa ggcctgaaacc ctatactact agagtggcca caatacattg ccagacgaa 300
gtagtaacct attctaatat ttacaaagat aagcgggctc atacttagcc catgggctct 360
cattctagcc taatgctcat gagaacaacta gggcggttcc ttgtatctct ggcacaatct 420
acttgagctc 430

<210> 19669

<211> 403

<212> DNA

<213> Glycine max

<400> 19669

tataggatac taaggtaatt tgagcatcca ttctgggtgct accaagatgt atcatgattt 60
aaagacgatg ttttgggtggc ccaacataaa gagagagggtt attgagtttg tgtatgcatg 120
cctagtctgt cagaaggcta agatagaaca ttagagacct tcaaggaagt tacaaccctt 180
agagataccc tagtggaagg gggacagtat ttccatggat tttgtggtag gactacctag 240
gacccctaga ggcttagatt ctatctgggt tattctcgat agattgacta agtctgctca 300
cttcattccc attaatatca gattttcctt ggaaaagtgt actaccttgt atataagtga 360
gggtttcaag ttacatggtg tgccatctag catagtatct gat 403

<210> 19670

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19670

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gtagagccaat aaaaacgaca ataagttntt actgggatgt ttgattgagt ccagtcatat 60
atcagagcgc tctaaattta atdttgaagc cctaaactaa ttcgaagcgc aataaatttt 120
tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct 180
tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct 240
tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct 300
tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct tctcctctct 360
aatctctaagc caatttcatac gacaatatct tttactcgg atgtttgaat gactcc 416

```

<110> 19671
 <111> 414
 <112> DNA
 <113> Glycine max

<400> 19671

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agcttcaaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 60
taaaaagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttc gagcgtctcg 120
atatattaag ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatttgctt 180
agaggggtcaa cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
agtaaaaaga tattgtcgtt tgaattggct gagagcttca acattcaatt tcgagcgtct 300
cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tgagagcttc aacattcaat ttcgagcgtc tcgatatatt aagggactca atca 414

```

<110> 19672
 <111> 401
 <112> DNA
 <113> Glycine max

<400> 19672

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tgacagtgtt tgatgcatac gggaacaatt tcaatttagt agtgggtcct aattggattc 60
ctaattttca actaacctat ttggatgtga catcatggga gataggtccc aactttccgt 120
cgtggattca gtcacaaaac aaacttcaat atcttcaact gttcaacacg gggattttag 180
attttattcc caattggctc ttggaagcac attctcaggt ttgtattta aactctcttc 240

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ataatcatat ccgtgggtgag ctgttgacta caataaaaaa tccaatatct atccaaactg 300
 ttgatctaag cacaatcat ttatgtggta aattacccta tctttcaaat gctgtgtata 360
 ccttagaact ttaacaaat tcttctctct gatccatctca 400

<210> Glycine max

<223> unsure at all n locations
 <400> 19673

tetagaattn ttgtcagctg catcaaaaatg ggaggcaact tgagggtttt gagtctttgc 60
 atcaactcat gctcaacttt agcttggctt ttatgttaac agttgcccac aaatagagca 120
 aatcgatttg aaatttgctc atgaccatat ccataatgct ccatcaactag cagctgcatt 180
 aataagaatg cactttcatg actgttttgt aagggtatgc gctccaatct ttaagcttct 240
 ttcattttta ctttaacaagt acaatgttat tgtttagatta aggttaagga gctaactaag 300
 atgaagcatt tcagggatgt gatgcacag ccccttttgaa ctcaacaacc aatcaggttg 360
 agaagaatgc tcttccaaat cttacagtaa gaggctttga cttcattggc attataa 417

<210> 19674
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19674

agcttaagct ccttcaactg cacaaggctc ttaatatctg aagagtatcc ttgtggaacc 60
 ttcacccgac gaagacactg acaaaaaactt atcttctcct tcttggacaa agtatggcag 120
 gctgngggca agtaaatctt cttcccatca gaccttgaat gcaactgtga tcttatccc 180
 atatcagcta gatcttgacg ggtattcaag tcatcctctg tcttgccttg aatgttaagg 240
 agcgtcccaa tcaactgtc acaaacattn ttctccacat gcataacatc aatacaatgt 300
 ctaacatcaa gatcacacca gtacggaaga tcaagaaaaa tggacctctt cttccatag 360
 caactctgac tcttatcctt ctcttgggtc tttccanata cagtattcau ctcttcaacc 420
 cgtgatata cct 483

```
<210>      19676
<211>      430
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      19676
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<210>	19677
<211>	425
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 19677

[illegible]

<010>	19678
<011>	409
<012>	DNA
<013>	Glycine max

<400>	19678	
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tggtcaactt	gytaacccaa	
ctggccttga	atcagaaatc	
tgtaoetgtc	gcaagggttt	120
gtggtttgtg	ctctctgtct	
gaccaccata	cagacctttg	
cccttccatg	cagcaaoctg	180
gagcaattga	gcagcctgaa	
acttatgtct	caaataattta	
caatagacct	cttcaacctc	240
agcagcaaaa	tcaaccacag	
gagagcaatt	atgacctttc	
cagcaacaga	tacaaocttg	300
gatggaggaa	tcaccttagc	
cttagatggg	ccagccttca	
gcaacaacaa	cagcagcctg	360
ctcttccctt	ccaaaatgct	
gttggcccaa	gcagaccata	
cttctctcca	ccaatccaac	400
aacaggaaca	acccagaaaa	
cagccaaca		

42104	19679
42114	430
42124	DNA
42134	Glycine max

223% unsure at all n locations
400% 19679

aaattagtat ccactaacaa gtacaaaaca accgaaagaa aaattgaaaa agtaaagaag 60
aaagaaaaaa taaataaaca tctagaacac cattccacca ccaataaaca cgtcaattaa 120

tccaaacett caccagattt ggactcacag atgccaaggc atcaccattc ccattccc 417

<210> 19682

<211> 400

<212> DNA

<213> Glycine max

tttttttttt tttttttttt gttttttttt gttttttttt gttttttttt gttttttttt
gatgctcgga aaaggaagct tggggactgt ttacagagcg gtgctcgatg acagctgcac 120
cgtggctgtg aagagactca aagaacttaa cccctgagag agaaatgagt ttgaacagta 180
catggatgtt gttaggaagc tcaagcacc ccaacttggt agactcagag cttattatta 240
cgctaaagaa gacaagcttc ttgtctatga ttatctgccc aatggaagct tgcctgctct 300
tcttcctggt tagttaaact caaactcgag cgagctctga tgggacatga tcttccatga 360
ttaaactttta ttaatttgat aagcttgatt gtttatatat 400

<210> 19683

<211> 418

<212> DNA

<213> Glycine max

<400> 19683

tcaacatcag accacttcca ggtgctgga tctacttcac atggacttga tggggcctat 60
gcaagttgaa agccttggag gaaagaggta tgcctatggt gttgtggatg atttctccag 120
atttacctgc gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180
gagtetaaga cttcaaagag aaaaagactg tgctatcaag agaattagga gtgacctgg 240
cagacagtat gaatacagca agcatactgt attatgcaca tccgacggcc tttctcatga 300
cactctctga gcatcacac cacaacacaa tggcatagtt gaaaggaaaa acaagacttt 360
tgcaaaagct gctacggtca tgettcctgc caaagaactt cctataatc tctgggct 418

<210> 19684

<211> 420

<212> DNA

<213> Glycine max

<213> unsure at all n locations

tttgacaatg gagggagaatt tattaaactt caaccatttt tacaaaaatca tggcatctct 300
 cagatgacaa ccccaactca tacccttgaa cataatggta tttctaaaag tanacaccgt 360
 tattagttt ccaactcttc ttgctactc caccatcca 399

<235> unsure at all n locations
 <400> 19687

agtcttaac tgaattagca acgttccaaa tgtcttttaa tgggtgaatc gataataata 60
 tattggtaat cgattaccag tgtatccgaa cgttgggaatt caaattcaat tgtgaagagt 120
 caccatctttt cataaaatgc attgtgtaat cgattacatg gttatggtaa tcaattacta 180
 gtagacaagtt ctgaataaaa agtcaagaga tgcactctt ccaatgggtt tctcaagatt 240
 tctcaaggt tataactctt ccaatgggtt tcttgaccag acatgaagag tctataaaag 300
 caagaccttg actttgcatt caaataactt tttacaactt ttagaatctc ttgaacaact 360
 ttgagaaat cttganacct ttacaactca tctttcttct tctt 404

<210> 19688
 <211> 445
 <212> DNA
 <213> Glycine max

<213> unsure at all n locations
 <400> 19688

tatgctcgtc aaaaattcac atggaattac gataacttga tattcattat ataattggcg 60
 tatatctata cgctacaact cggatcagat aactctttta agcacacttg ttccctatag 120
 acatacatta aattgataag atattcttta ttgataggaa taaaaaaata tattatttaa 180
 aatttataat aactcaccta tcaatttata atatttgcatt atgtacatta attatagacc 240
 gtaaaaacacc aagtatatat ggctaagaa aatgcttcat gtatataatt aaataaatct 300
 ttccataact gaaaaataga tcattcttaa attactacct acgaattcat ttttggcaa 360
 atacctactt gaaaaaaaaa tttaatctt cggntaagtd atgacgtagc agaataccac 420
 atcattacgt ccaatcactg acaact 445

<210> 19689
 <211> 189
 <212> DNA
 <213> Glycine max

atggtatgga ggtatgaa tttgtgaa ggtggaat ggtggaat ggtggaat
 aaagtgcgaac ggtcataact tttcacacgg atgtgggaat tctgggcata atatatagag 180
 aagctcgat 189

<210> 19690
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19690
 agctntgggtt atngattgac cccaggccta aaccagcaac cactccatct tgcactgcag 60
 tccctgtaagc tttgggttaag gattgattgt attgagctat agcttgactc tcgcctgtaa 120
 atgatgcaac ctgcattgga ggaatgtgta tcttttatat tctactgtct acaaacatgt 180
 aaaaqaacaa gattgacaag ttccattatg aagattggca tacttgctga attgaatcaa 240
 ttgtgcgctc tactacagtt gctgcttcag aataagctgc ttgtccatgg gatggcaact 300
 ttgcaaaagt aaagctcctc atggaaccag agattaccag aggtggaata caagatagaa 360
 ggacaagggt tagaagccaa ccttggatga atgctatgac taaacgtcct aaaaaacatg 420
 ccaca 425

<210> 19691
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19691
 tgcgcgcacg gagtntccg actatgctct tgggtgggtg atctactac aaaaggagag 60
 agcaaganat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120

ggggtatgtt cgggctagtt actcaaggga ctgaaattc aagctccaaa aactaaccga 180

aggaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattcaagaa catgaagagg taactatgg tggatttctt aatggtttga ctatcctat 300

gaggaatggt ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 360

tattcaagaa catgaagagg taactatgg tggatttctt aatggtttga ctatcctat 420

<21> 19692

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19692

agcctgaaat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttntcacaca 60

gatgtccgat tgggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120

gagaaatttg aatggtcata acatttcact cggatgttcg atccggggac ataatttctc 180

gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggctg taacttttca 240

cgagaatgtt cgattcgggg acataactca tctagacgct cgaaattgaa caacggaagc 300

tctcgagaaa ttcgaaatggt cataaagttt cacacggatg gtcgatttcg ggacataata 360

tatcaagaca atcgaaattg aacaac 386

<210> 19693

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19693

tgtcatcgga ggggttgaca catgtgatga tgcattggac ctgggtttgt aattgagata 60

gcagaatatg atgagccaat ggttgataga tggacggaga tgaaaaagat catgaggaag 120

cggtatgttc cggctagtta ctcaagggaac ttgaaattca agctccaaaa actaaccgga 180

ggcaacaagg ggggttgagga gtatttcaag gaaatggatg tgcctcatga tcaagcaaat 240

attgaagatg atgatgatgt aactatggtt cuatttctta atgggtcgac taatgatctc 300

cgagatatgt atgagctgca tgattttgtt gaaatggatg atctgcttca caaagcaatc 360

caagtggagc aacaa

375

<210> 19694

<211> 398

<212> DNA
<213> Glycine max

<214> CDS
19694..19744

gttgggtgcac agaaagaagaa gaagtttcaga gagattcaaa gcttgtaaag gattgatcaa 60
atgaatgtga aaagtatatt gaaaatcaaa tcaaagcctt acttttatag acttttcacg 120
cttggccaag aagaccattt agaagagtta taacttttag aataacttaa aaccaatttg 180
aaaaagtcaa aaaccttttg aagagttaca ttttttttat ttattcagag acaaacactg 240
gtaatcgatt accatattag tgtaatcgat tacacagagc ttttgtgtga aaagatgtga 300
ctcttcatat ttgaatttga aattcaacgt tcaaaggcac tggtaatcga ttacaaaaac 360
attggaattg attacagctn tgtgaaaata attggaac 398

<210> 19695

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19695

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gttgagagac aaatgtgng aaaagttagg ctggttcctg aagaatccat gccatatgga 120
tgctacagag tgaaagggac ttgttttagt gtagagagat gaagaaagtt ctacgttaat 180
ttggaatatg atttgggtgt ttggaaggaga accgfaaaaag aggggtgcaag agttttccaa 240
cgtgtttccag aggtttcatg tgttactttg tcaacatatt ggtcatatc ateggaactac 300
agctttttctc ttttaagtaat ggtttgggca atttcacact aagttgggat taagtccaat 360
atcaatatca tactactag ntacgttttc ggcatttget tctgcacct cttttatggt 420
ttctggaatg gtraatcccg 440

<210> 19696

<211> 384

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19696

19696 19697 19698 19699 19700 19701 19702 19703 19704 19705 19706 19707 19708 19709 19710 19711 19712 19713 19714 19715 19716 19717 19718 19719 19720 19721 19722 19723 19724 19725 19726 19727 19728 19729 19730 19731 19732 19733 19734 19735 19736 19737 19738 19739 19740 19741 19742 19743 19744 19745 19746 19747 19748 19749 19750 19751 19752 19753 19754 19755 19756 19757 19758 19759 19760 19761 19762 19763 19764 19765 19766 19767 19768 19769 19770 19771 19772 19773 19774 19775 19776 19777 19778 19779 19780 19781 19782 19783 19784 19785 19786 19787 19788 19789 19790 19791 19792 19793 19794 19795 19796 19797 19798 19799 19800 19801 19802 19803 19804 19805 19806 19807 19808 19809 19810 19811 19812 19813 19814 19815 19816 19817 19818 19819 19820 19821 19822 19823 19824 19825 19826 19827 19828 19829 19830 19831 19832 19833 19834 19835 19836 19837 19838 19839 19840 19841 19842 19843 19844 19845 19846 19847 19848 19849 19850 19851 19852 19853 19854 19855 19856 19857 19858 19859 19860 19861 19862 19863 19864 19865 19866 19867 19868 19869 19870 19871 19872 19873 19874 19875 19876 19877 19878 19879 19880 19881 19882 19883 19884 19885 19886 19887 19888 19889 19890 19891 19892 19893 19894 19895 19896 19897 19898 19899 19900 19901 19902 19903 19904 19905 19906 19907 19908 19909 19910 19911 19912 19913 19914 19915 19916 19917 19918 19919 19920 19921 19922 19923 19924 19925 19926 19927 19928 19929 19930 19931 19932 19933 19934 19935 19936 19937 19938 19939 19940 19941 19942 19943 19944 19945 19946 19947 19948 19949 19950 19951 19952 19953 19954 19955 19956 19957 19958 19959 19960 19961 19962 19963 19964 19965 19966 19967 19968 19969 19970 19971 19972 19973 19974 19975 19976 19977 19978 19979 19980 19981 19982 19983 19984 19985 19986 19987 19988 19989 19990 19991 19992 19993 19994 19995 19996 19997 19998 19999 20000

gagatcttgc atgagcttgc atttgccttc gttttttc ctttgccttccttc 19696
aagcaacact gtaacagatca cccaagcagg ttgaatatcc tgggggagga ctaggatact 240
ccccagggga atatgttccc caactacttt cttctgcatt ggaagctgtg gttgcataaa 300
tatttatata ttggggaaga agaccttcaa agatactccc agattcacat gcttcacgat 360
aaaatacctg cattaccato atgt 384

<210> 19697
<211> 361
<212> DNA
<213> Glycine max

<400> 19697

agctttttgat gcactagtcc gaaggtatgt atcaacctgg ttttgaaaat caagatctca 60
tgagcccttt caagaatgga tgataaatga taattctgaa ttgggaaaca taatattgca 120
tatcatgact acgtgaatgg ctcccatgg ccaccaagat catacaattg cagcttttgt 180
acaaaggagt ttaagtctgc tcatgcactt ggtggacaca tgaatgttca taggacggat 240
agaccaaggt tgaggcagtc atcacctca attcatgaag atcaaggaca agctgctgga 300
cctatatagc acaaccttaa ttttgacct aacaacaact cactctcatg atgatgggtg 360
c 361

<210> 19698
<211> 427
<212> DNA
<213> Glycine max

<400> 19698

tcaaacctct cacaaggag aagacaaagt aaagaatgtg aaatctaaac tgatgaatgc 60
aatataacag tggcaaatag aaataattgt ttctccaaa aactatactc aatctacttc 120

aacaacaata gcagcctgct ccttcctttc aaaatgctgc tggcccaagc agaccatata 360
 ntctctcacc aatccaacaa cagcaacaac cccagaaaaca 400

<210> 19701
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19701

cctaagcajc caagtjaggg acaacagaac aattatgac ttgcagcaa caagtacaat 60
 cccatgtgja ggaatcattc caaccttaga tggatgaaac ctccacaaca gcttctgcaa 120
 taacaacaac atccataact gcataatggt gctggggcaa gcagaccata cgtttctgca 180
 ccaaatcaac aacagcagca accacagaaa ctacgaacag tcgaggctcc tacacaacct 240
 tctcttagag aactgtgag gcaaatgatt atgcataaca tggcagttca acaagacac 300
 agagcctnca ttcagagctt aactaatcag atgggacaat tggctacaca attagatcaa 360
 caacagtgcg agaattctga c 381

<210> 19702
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19702

agctntntat ttccagtaga tgaagatgaa tctgtggcaa cctcatggac tctcttaagg 60
 acaatagcat cattctctgc actgaattgt tgggagttag aagccatctt ctogatcaaa 120
 tctctggcct cagcaggggt catatcata agggctccac cactggcagc atcaatcata 180
 ctctctcca tgttgctaag tccctcatag aaatattgaa gaaaaagttg ctcaaaaatc 240
 tggtygtgag gacagcttgc aacagatttc ttgaatcttt cccagtaact atacaagctc 300
 tctccactaa gtgtctgat gctaaaaatg tctttcttga tggcaatggc cctagataca 360
 cgaaagaatt tctccaagaa cactctctta aggtcatccc agctgaaaat 410

<210> 19703
 <211> 420
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19703

agctctctctc cactctctcct caaatgctaa cacaacatcc ttttttacta aatttgctaag 60

agctctctctc cactctctcct caaatgctaa cacaacatcc ttttttacta aatttgctaag 60

aaacataaaa tgacatttct cccagttaag caccaagttg gactcttcac atctctgcaa 360

caaccttttc aaattcgata gatagcaatc aaaagaagag ccanagatag agaaatcacc 360

cataagaatt tcgatacact tctccaccat atcgaanaag atngccatca tgcacctctg 420

<210> 19704

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19704

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tatgattttc tattgataat tcatgtctat gattttgtag tgttattatg acatgatctc 120

gaaagttatt gatatgttga aattagaaaa tatttttatt taatttgata catgtgtata 180

tgattcatga gatatgataa attattatat tnggatcatg aaattgtgat tgagaatgtg 240

tgtgtaagtg atgaattgtg agatatatgt gtattgagat gtgagctatg aactctacaa 300

tcaacacaatt gtaagagcct ttaagagcga tgagttaatg cgcgataagn nttgtatgag 360

ctctactgtg ggaacccgat gaagttaatc aat 393

<210> 19705

<211> 232

<212> DNA

<213> Glycine max

<400> 19705

tcaacattca atgtcaagcg tctcgatata t'atgggact caatcagaca tccgagtaaa 60

aagttattgt cgtttgaatt ggc'cguage tcaacattc aatttcgagg g'ctcgatat 120

attaaggagac tcaatccgac atccgagaaa aaaattattg tcgtttgaat tggctcagag 180
 gctcaacatt caattttgag cgtctcgata tgttacggga ctcaatcaga ca 232

<210> 19706

<211> 19706
 <212> DNA
 <213> Glycine max

tatctgttaa ctaccaagaa ccctctggta atcgattaca gcctgttgta atcgattaca 60
 aggtctgttt ctatgggtatt ttgcatttaa aactaactat ttctcaactc caaaaactac 120
 acattgagta taacaatcat taacaacaat caacaatcaa aatatacaat taaaacaagc 180
 atcaaaaactc tcaaacacat tcatcaagca caatcaaaaat tgcaaaaagac aattatcaac 240
 aacaatcaac actcactata actatcaaaa cataatcatt agagacaate aaaactcaaa 300
 caaagacaat cattaatcca taatcaacaa taatcatcaa aagcaaaactc aattatcaag 360
 aacaatagaa canattaaca atcatatgat aagagataat aatcaaccaa gttaactatg 420
 tatctaagtc a 431

<210> 19707

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19707

tgcctcagga ttgaaaagtg agacatttcc tcaacatggt ttcaaaactc aaaaagccct 60
 atatggactt aagcaagctc cttagagcttg gtatgaaaag ctaagttcat ttctcttgaa 120
 aatggctttg agcgaggaaa ggttgacaca acactcattc acaaaaaacta tgattctcag 180
 tttttattag tgcgaagtata tctggatgat atctcatttt tagtgcactc aatgaaatto 240
 ttgtggaaga tttttctaag tagatgcaga ctgaattcga aatgagcatg atgggagagc 300
 tgaaattctt tcttggatta caaataaaaac aaacacccan aggcattctac attcatcaga 360
 ccaagtatgt gaaagaatta ctgaanaatt caacatgggt gtgcgaatat agataaag 418

<210> 19708

<211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19709

tttgcctcga gaaatcgag tggtcataaa ttttcacaca 120
 atgaccaag agcaaggga aggatccact tgaaggactt ggaggaccta tgacaaggge 240
 tagagcaagg aaagccaatg aagctcttca acaagtgtgt tccatactat ttgaatataa 360
 gccaagatt caaggagaaa agtccaaggg tgtgagttgt atcatggccc aaatggatga 360
 gaactaaatg acaccacttt gtctcnaatt tt 392

<210> 19709
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19709

agcttganat tgaacaacgg aagctctcga gaaaatcgag tggtcataaa ttttcacaca 60
 gatgtccgat tgggggaaat aatataatga gacgcacgaa attgaacaac ggaagctctc 120
 gagaaatttg aatggtcata acatttcact cggatgttcg attcggggac ataactctac 180
 gagacgctcg aaattgaaca accgaagctc tgcacaaatt agaatggctg taacttttca 240
 cgggaatggt cgattcgggg acataactca tctagaacgt cgaaatngaa caacnggagc 300
 tctcgagaaa ttggaatggt cataagtttt cacacgga 338

<210> 19710
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19710

agcttgaatg ataacttgat gctttcttca acctaccacg tgaacttggc atgaatcaga 60
 aatctacacg ttttcaaga gtcgtgggta taigtctctc tgcagatcac catcacagac 120

gtgttccaga ggcttccatgt gttactttgt caacatattg gtcattttca tgggactaca 300
 gttttttctct ttaagtaatg ttttgggcaa tttcacacta agttgggatt aagtccaata 360
 tcaataccat acctact 377

<210> 19714
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19713

atggagcgggt ttaaagggtt taatgctaaa gtagagaaac aatgtggaaa ataaattaag 60
 attgtgagat tagatagaga ggagagtatt atggtaagta cacagagagt ggacaagcac 120
 atgggtccatt tgcaaaatct ctttaagaac atgggattgt tgcccagtac actatgtcta 180
 gttctccaaa ttagaataat gtggcagaaa gaagaaattg aactttaatg gacatggtaa 240
 gaagtatgag gagtaacaca aaacttcttc agttcttctg gattgaaaca cttaagatga 300
 ttgtgtatat atttaataga gttccaacca aggggtgtctc aaagacacct tttagattat 360
 tcaaaa 365

<210> 19714
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19714

atcttgggtga gtgggtcttg ggcttctga tcatgtgtgg gctggctctg tattttgagc 60
 aatcaatgta aaggtgctta gtttctcat gaaacacgag attggcggct atgtggagaa 120
 tgctttgatt atcacaatat ataacaactg gatgggagca attgatatta aatcattgag 180
 aagatagggt agccattgaa actcacaagt ggttgaagta agagctcagt atttagcttc 240
 naatgataaa tgtgaaacaa tctctatctt cattgatttc tatganacca aggatctgoc 300
 aatgatgaag caattctctg gatggagttg gacag 335

<210> 19715
 <211> 426
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19715

actttataat gtttttttccc agcagcattg aaggaattcaa tgaattcagg atttttttc 60
ggtttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
tatttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tatttttttt gtttagcaatt aatgacacta cgtactgatt aattgtttgct agagaaactc 180
tattgagttt agtgttttga gctagatgtg taaattggta tgcctcctaag gcaatgtttc 240
gattagtata tataggatta ttgtcccttt aagggganna tatttaattct tagtcagaat 300
gaaact 426

<210> 19716

<211> 312

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19716

tctatagaag gtttgttccct aattttctcta caattgcctc acctctcaat gagctgggtga 60
agaagaatgt ggcatttaac tggggtgaaa aacaagagca agcatttgat ttgctcaaac 120
aaaagcttac taaggcacct gttctagctc ttctgactt ttctaanact tttgagctag 180
aatgtgatgc ctctggagtg gtagttgtag ctgtattgtt acaaggtggg caccctattg 240
cttatttatag tgaaaaaactt catattgcca ccttcacta cccacctat gataaagagc 300
tctatgcctt aa 312

<210> 19717

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19717

tcacaaaaga aaagtggata atccacatat tacaaaaggt tgaacttcac attaccatcc 60
cccacaagga aacttgcaaa caagtnttcc tcaatagtta cctcttcacc atctcacaca 120

atccttctaa taacaatagt aaacaagaaa agtgtcaatg gatcaccttg tcttaaaatt 180
 tcttgagcga aaaattcata agtatttcag caacatcaaa tggtaactga tgtcaaadat 240
 gatttactcc aattcaatcca cttctcatca aaacccaacc tcttcatata aaacaagaaa 300
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 360
 tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 420

<210> 19718
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19718

agcttggaga gcaagtcttc cttagtattg ttttcccttg gtatgtggta ctttttgagc 60
 aattgaaatt atcaacaagg gtttttatga catgatagtt tatgaggaga accacttctt 120
 tggctcgata tatgttttca acccatctt ggacaagttt cgagtcttta tagcacctga 180
 gtttcccttg cogaacttca ttggccagtt ttagacctgc tatgagtgc tttatatttg 240
 tttcattggt tgatgccttg aagtcaaatt tgagggcatg ctccanagtg acattgttgg 300
 gtccttcaag cataatgcc gccctatttc ctttcacatt ggatgcacca tcaacatata 360
 agttccacca gtt 373

<210> 19719
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19719

agcttgcctc tctgcctcct cctgagatat tgggtgggc tttccaatga taacatcttc 60
 accagatact cgtgtgcctt atttcataat aattaattag ttcttctgaa attccttgag 120
 gatagatcaa aaaggcataa attcagatat gcttactggt ggggcaagac catcatcctc 180
 cagcttatca taagaacct gtctcattcc ctgaaaaatg aaacttggta agaaaccacc 240
 aagaagaac caatactctt ttccaaataa aaattgttaa gcaagaatag ttatttggta 300

ccaaaacccaa atttctcacc atgggtgttag ctctatcagg acggccacaa ttttttttga 360
 ccagggttcc catctttcttc ttttcatttc tataanaagt taagaatata gcataacata 420
 a 480

<209> 19720
 DNA
 Glycine max

<400> 19720
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 attgagatta tcaacccaagg tttttatgac atgatacttt atgaggagaa ccaacttcctt 120
 ggtctgatat atgttttcaa cccatctctg gacaagtctc gagtctttat agcaactgag 180
 tttacttgcg cgaacttcac ttgcacgttc tagaactgcg atgagtgcct tatattttgt 240
 ttcattgttt gatgccttga agtcaaatc gatggcatgc tccaaagtga cattgggtggg 300
 tcttcaagc ataatgcctg cctcatttcc tttcacattg gatgcaacat caacata 360

<210> 19721
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19721

tatgtacaaa acatctacaa cagacctctt taacctcagc agctaaatca gccacaacag 60
 aataattatg acctctccag caacagggtac aatcccgagt ggagaatcat cccaacctta 120
 gatggtcgaa tctttcacia caacagcagc aacaacaaca accttatttt caaaatgctg 180
 ctggcccaag cagaaccatac gttctctccac caatccagca acaacaacag caacagcccc 240
 aaaaacagca aacagttgag gctctctcgc aacctttctt agaagaactt gtgaggcaaa 300
 tgaattatga aaacatgcag ttctgacaag agaccagagc ttccattcag agcttaacta 360
 atcagatggg acaatnggct acacagttaa atcaacaaca gtcccagaat tctgacagat 420
 tacccttctc atctatct 480

<210> 19722

<211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19732

tgggttctca attgattggt gaaagaacaa aagtaaacac atattttttt ggggattttt 15
 tgggtctaac atttcttgca aaatctgcat ctacatagcc tgtgactact gcttcgtgtg 240
 tgggtttctt gtaaccttaaa ccagctttca aagatccatt tagatacctt agtggtccact 300
 tcaagtttg ccaagtgtgag cttgcaggat tccccatgaa tetgcttata atacttacag 360
 tatgagctaa gtcaggtctg atgcaacctt tccatacatt atgcttncaa caccactg 418

<210> 19723
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19723

tatagaatat ataataagat aacaatgaca attgaagaat cgattcatgt ttccattgat 60
 gagtctaatg ctatttctcc aagaaaggat atttttagata atattgcaga atcttttagaa 120
 taaatgcaca ttcattggaca agattctaaa ggaaaaggag aaggaagcaa tgaagatcct 180
 ccagtagaag tcaaaagcaaa taatgatctt ccaagagagt ggaaagcttc aagagatcat 240
 ccccttgaca acattattgg tgatatctca aaaggggtta caactagaca ctctctcana 300
 gatntatgca ataacatggc ttttgtatct atgattgaac ctaanaattt aaatgaagcc 360
 ataatagatg aaaatggata atagctatg 389

<210> 19724
 <211> 313
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19724

tgaatcgat taccatata ctgtaatcga ttaccagagt atatttttag aaaatattct 60

caacagtcac atcttttttat gtggttcttg aatgactatc aaaggcctat atatatgtga 120

cttgagacac gaatttgoga agagtttttc agaacaaaaa ggtcttatcc tcttataaag 180

aaaaatcggg ttaacctctt acaaatctct tggccaaatt atttatctt caataatnn 240

cttctctctt tttctctctt tttctctctt tttctctctt tttctctctt tttctctctt

cttctctctt tttctctctt tttctctctt tttctctctt tttctctctt tttctctctt

<213> 19725

<211> 302

<212> DNA

<213> Glycine max

<400> 19725

tacgttaagat tgaagagaac ataatatat atttgaaata atttatattt aaaattataa 60

gggatttttg cataactaat ccaggtagaa ttttagatata taggagggga aaatttataa 120

ttataaagaa gatacacata attaattcat gagaatttaa atttaacatt tttaaagaag 180

ttaataatga tgagtgtaga ctaacgttat tcataagata cttctatact ctaatttcat 240

tcatacgaat ggagcagatg attcaaaaca tgagaactta ggtgcaaat ctataataat 300

at 302

<210> 19726

<211> 359

<212> DNA

<213> Glycine max

<400> 19726

agctttgatg ttgttagtcg ccatttggat gtcgagagtg tcatcttggt ggattctgag 60

aagaagatca ataaaatctt ggtctctctaa ttcagctcca tcttcttttg caattttgtt 120

ctttctctga tgcctctga tgatggcttc caggaccttg tcaacctgct tgtgcaactt 180

ttcaatctg gtcctcttc cagttaggaa atataagaat ggaattgaag gatagacatc 240

atcaaggctg aatctctccc cggattctac gatttttcgg atcaagaca ccacaaactc 300

atcttgctcc ttgcataatg caccgaactg tctctgttaa atagaggctc atatcaatg 359

<210> 19727

<211> 348

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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      19727
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```
<410>      19728
<411>      452
<412>      DNA
<413>      Glycine max

<423>      unsure at all n locations
<400>      19728
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```

#210>      19729
#211>      450
#212>      DNA
#213>      Glycine max

#223>      unsure at all n locations
#422>      19729

```

gtgggttatat tgtatccttc aacaaagagt aatgtatagt caagacaaaa gatgacaagt 120
 ctttgtttac taccaaatga cacaacaatc tgcattgagat tgatctaata ggtctaagta 180
 aacagaatgt gacatgtctg cttctagag aagatgagag atggatttgg catagaaaac 240
 gtttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 300
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 360
 ttttcttctt ttttcttctt ttttcttctt ttttcttctt ttttcttctt 420
 catagatat gtttggacca ac tgaatg 480

<210> 19730
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19730

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 aaggcaacca gggaatgata ttgatgtgta ttttacacca ttaatcgaag acttgaaaaa 120
 attgtgggaa gaatgagtag atgcgtggga tgcaaatgtg cagcatacat tcacattaca 180
 cgcaatggtg ttttgtacta ttaatgatta tccagcatat ggaaatttaa gtggatatag 240
 tgtgaaaagg catcatgcat gtcttatctg tgagaaaaac acaagcttca tccaactcaa 300
 gcatggaaag aagacagtat atacgagaca ccaagattt ctgatagett ttcacctta 360
 ttgatgattg aaaaaatctt ntaatggaag tcaggagaat gaaggctccc cagaaccatt 420
 aactggaaac caagttcatg atcgggtaaa ggac 454

<210> 19731
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19731

agcttaatac ccataatcac atctacagga ccaaggctct tcatatcaaa aattttagac 60
 aagaaagact tcacatcatt tatgaattgc atattactac caaatatcaa tatgtcatcc 120
 acatadcaaac ataaaatgac acatccatta tcattcaaatt gtttcacata cacacattta 180

tcagtattat tgattagaaa accatacgaa agaacaattt gatcaaattt ttctgtccat 240

tgttttggag cttattttcaa accatataaa gatttaacaa gtttgcaaac tttttttct 300

ttctctgggt ctacaaagcc ttttaagttg ctcataataa tttctctctc taattcaaca 360

ttctctctctc taattcaaca tttctctctc taattcaaca tttctctctc taattcaaca

ttctctctctc taattcaaca tttctctctc taattcaaca tttctctctc taattcaaca

<210> 19732
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19732

taattacat gtccaagct cctctcccat tgaacccaac actatcaacc aggcctctcg 60

cgaacctgat tggcgctcag ccattgcaagc cgaattctgat gccttacacc acaacatcac 120

ttagatcttt gtcagtcggt cctctgatca aaatttgggt ggctgtanac gggatttctg 180

aattcaacga aatccagacg gatcaattga tcgttacaaag gctctgttag tcgccaaggg 240

gtttcaccaa cgtctctggt gggactatac agaaactttt agccccgttg ttaaacgggt 300

gaccattctc attgtcctaa ctctcgcagt tcgtcaaggg tggcccatac gtcagcttga 360

tgtcaaca 368

<210> 19733
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19733

taaagtctca cgattgccat atcttgatgc aataattggt attctgtggc ataagagaca 60

tttttcttaa caaagtcaaa catgccataa ctcaatcgtg ctttttcttc aatgtcatat 120

gtagcaaaagt ccttgatcct gccaaagtag atgagctaga aaatgaggtt accaatacat 180

tgtgtcagat ggagatgtat tttctctctg tgttctctgg cattgtgggt caattaattg 240

ctcatctggt gagggaaatt aaatgttatg gtcttgttta ttgtgtgggt atgtaccaga 300

tttaacaata ctagaagatc ttaaatggtt atacaaagaa tctacacggg ttgaagcat 360

ctattgtggg aaggtacatt gtagaagaag ctattgagtt ttgttcagag tacattgaaa 400
 aggcaaaaact tgttgtgctt cccaagtctc gacatg 456

<210> 19734
 <211> 330

<212> DNA

<213> Glycine max

<210> 19731

agtttgtagg cctaggatct tttttatcaa tggactcctt taatttcttg aagatgaatg 60
 acagtgggaat ggagaaggaa gagagagaga ggagatgcca ctccaaggag aagatgagtc 120
 tagaaggagc tcaccaccat aggaggtccat ggataagagc ttggaggaag aagaagataa 180
 atgaagggag aggaagagaa gaacacgaaa ttttatgctt tacaagagct ctaaaatctg 240
 aagtttaatt ttcaaatgat caaagttcaa aaaaatacac acacatgacc ctatattata 300
 tcttaagtgt cacacaaaat tggagyaaaa tttgaatttc tatccacata tcacttacat 360
 ttganattaa atttgtggag ccaaaatttc actaattatg attagtggaa tttagctatg 420
 gtccagtcga ctagtccaag at 442

<210> 19735
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19735

tagcttgaat ctgacatccg tgtgaaaagt tatgaccatn tgaatttctc aagagcttcc 60
 gttgttcaat ntgagcctc togacatatt atgcaccoga atcggacata cgtgtgaaaa 120
 gttatgatca tttgaatttc togagagctc ccgatgttta atttcgagcg tatcaatatt 180
 ttataaccgc gaatcggacc tcactgtgac aagetatgac catttgaatt cgacgagagc 240
 ttcggttggt caatttcgaa tctactata tgtgatgcgc ctaaaattgga catttcgagat 300
 aaaagctatg accattagga tgtctcaaga 330

<210> 19736
 <211> 330
 <212> DNA

<213> Glycine max

<400> 19736

agcttgggag aagaatgaga tgaatgaagg gagagggaga gaagagcacg aaatttgtgtg 60
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct 120
atttcactaa ttaggattag tgaattttag ttatagttca gccagagtaat ccaagatcaa 300
ttccaagatt ctccactaag tgtgcttaag tgtcatgagg catgtaaagc atgaaagaca 360
tgcacaaaat gtgactatat ga 382

<210> 19737

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19737

agcttgtaca tctctgtttc tctaccttc atcacanacc ctggtggttg agtgacaaaa 60
acttcttctt ctagttagcc attaagaaat gcagatttta catccatttg gtgtacttcc 120
cagcaattga agctagccat tgctattaca agtttctactg ttccaacct agcaacaggg 180
gcaaatactt catcataaac cagaccttgc ttttgcaaaa atccctttgc aaccagtctg 240
gctttgaact ttgttacttc tctctacga ttcaacttag ttgtgtagac ccattctact 300
gctatggctt tctttcctat tagtagctat gtgagactcc atgtcttggt tctctcaata 360
gacctcaact c 371

<210> 19738

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19738

tttgtgaatg tatgtataca tgantttgat gatgocaaag ataategtct tctcaagttt 60
gatccaagtc aagaattcag aaattcataa aataactccc cagagtcaca actcttcaga 120

agagagagca agtaattttg agaactcaaa acttgaaaat caatgtacct ttaggttaaag 300
 ttntgaagca tattttatga ttctgatttt tttaaataat tattatagaa ggggttagtt 350
 tacttttttg aatctgtcac atataatctt ttttagattg tacttaactac attttgaaac 400

<210> 40
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19741

agcttataga ttatataata agagaacaat gacaattaaa gaatcgattc atgtttccctt 60
 tgatgagttc aatgttattt ctccaagaaa ggatatttta gatgatattt cagaatcttt 100
 agaacaaatg catattccatg gagaagatta taaaggaaaa ggagaatgaa gcaatgaaga 180
 tactccagta gaagtcaadg caaataatga tcttccaaga gagtggaaag ctccaagaga 240
 tcattccctt gacaacatta ttggtgatat ctcaaaaagg gtaacaaata gacactctct 300
 canagattta tgtaataaca tggcttttgt atctatgatt gaacctanaa atttanatga 360
 agccataata gatgaaaatt ggataatagc tatgcaggaa gactanacca atttgaaaga 400
 aataatgttt 430

<210> 19742
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19742

tatagtctca cgaatgccat atcttgatgc aataattggt attctttgcc ataccagaca 60
 ttattgctaa cagagtcgga catgccataa ctcaatcgtg ctntttcttc aatgtcatat 120
 gtageaaaagt ccttgatcct gccaaagttg atgagctaca aaatgagget accaatatct 180
 tgtgtccagat ggagatgtat tttctctctg tgtttcttcg cattgttggtt caattaatg 240
 ttcatttggt gagggaaatt aaatgttatg gtctctgtta ttgtgtgtgg atgtaccgca 300
 ttgaacaata ctagaagatc ttaaaatggt atacaaagaa tctacacctt ttgaacatct 360

ctattgtggg aaggtacatt

380

<210> 19743

<211> 162

<212> DNA

<213> Glycine max

<214> Glycine max

<215> Glycine max

aaagctctga gagattcgaa tggctttaac tgttcacacc gatgtccgat tggggcgag

120

attatagaag agatgctga aattgatcaa cggaagctct cg

162

<210> 19744

<211> 230

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19744

taagacatct ctctatggac ttaaacaatgc accgatgcaa tggatatggtt tacttanaaa 60

cttctttctt gaacaaaaat ttgagagagg aaaagttgat aaaacacatt tcattaaaaa 120

gatctctcat aacattttac tcatgtaagt ttatatggat gacatcattt ttggttctac 180

taatgatctt ctttgtgaag attttgtaca caagatgcac gaggagtttg aaatgccaat 240

aatggggggg gggattatat tactttcttg gtctctatgt 280

<210> 19745

<211> 446

<212> DNA

<213> Glycine max

<400> 19745

agcttgaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga 60

aattctgacc tcttcgaagg gtttctggtt tctgtctctc tcttgaccac catacagacc 120

tttgcccttc catgcagaaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180

tttacaatag acctcttcaa cctcagtgc aaaatcaacc acagcagagc aattatgacc 240

tcttcagcaa cagatacaac cctggatgca ggaatcagcc taatctcaga tcttcagacc 300

ctcagcaaca acaacagcag cctgcttctt ccttccaaaa tgctactggc ccaagcagac 360
 catacattcc tccactaatc caacaacagc aacaacccca gaaacagcca acagttgagg 420
 cccctccaca actttccctc gaagaa 446

<323> insure at all 11 locations
 <400> 19746

tgtagcanat tcaaacagga aataaatttt actcggatgt ctatttatgt ccgtaatat 60
 atcgagatgc ttgaaattga aaacggaagc tctagcaaaa tgcaaaacac aataactttt 120
 taactcggatg ttcgattgtg tctcgtagta tctcgagacg ctogttattc aaaacagaac 180
 ctogtatcaa attcaaacga caataactat ttaactogaat gtttgattgt gtcccatagt 240
 atatcgacac gcttgcaatt gaaaacagaa gctcttagaa aattttaacg acaataactt 300
 tttactctga tgtccgattg ggaccogaat atatcgag 338

<210> 19747
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 19747
 tgatgactac cctcttatgt gaacaatagc ggtattttacg atcttgttac atgaatatgg 60
 cacagccatt agaaataacg ctaggttagt agccaatgga tacaatcatg aagaggggat 120
 agattatgag gaaacatatg ctctgtttgc tagattataa gccataacag agatattagc 180
 cgttgcaccc ataattggaat ctaaacttta tcaaacggat ggaaagaggg cctttgtgag 240
 acgcttatcc cagaggacgt atatgtctat caacccccctg gctttgaaaa ctacagatatg 300
 cctaactcatg tctttatatt gaaaagggct ttatatggta tacaacaagc ctctagggct 360
 tggatatg 367

<210> 19748
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19748

[illegible]

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<010>      19749
<011>      415
<012>      DNA
<013>      Glycine max
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<223>      unsure at all n locations
<400>      19749
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catttgtaag	gttggcaact	agttttcttt	taagcggagg	tatcctatac	aaatgaaatc	180
atgatatggt	tttgccttga	tgtgtagaca	ctaaagaagc	cgagcgaatg	ctcatggagg	240
tacatgaagg	gtcctttgng	atgcattgcta	atgtgcatgt	catggctagg	atgattctaa	300
gggcagacta	tactggctc	accatggaaa	atgactgttg	catccatgtg	aggaaatgcc	360
acaagtgcac	ggcattcgcg	aacaatgtga	atgctctggc	tatgcttttg	aacat	415

<10>	19750
<11>	440
<12>	DNA
<13>	Glycine max

<400> 19750

agctttctctt ataacacagt atcattcagca tattgaagaa cattcacagg aactttgttc 60
ttccccacca aaaaacttct gaacctatct tgggaaactg ctctctctcat caaacctgtc 120
aatccctcag ccactaaatc aaagaggaga ggtgccaaag ggtcaacttg tctcaatcct 180

ctttgaggat taaattctga agttgggctg ccattaacaa gaacagaaat ggaagccgaa 240
 ttaaggcagg cccattacca tctaaccat ctctcatgga accccattct cttcagcata 300
 taaatgagaa atggcaaga tacaataca taggcctct tacaatgaa cttataaacc 360

<210> 19751
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19751

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 aatgggtgaga atggaggatt gccttgaggg tcttcactta ngcaatcatg aaacacaact 120
 ccaaaactcga aagtggagga cacatgacca gccctaagca ataacattca tgtggctcgg 180
 aaaaaggggtg agaatggagg attgccttga gggctctcac ttangcaatc atggaacaca 240
 gctccaaaact cgaaaatgga ggacacgtga acaaccctaa gcaatagcat tcatgtggct 300
 ccgaanaagg gtgagaatgg aggattgcct tgagggtcct cacttangca atcatganac 360
 acaactccaa actcgaaaat ggaggacaca tgaacagccc taagcaataa cattcat 417

<210> 19752
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19752

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 gcttgtgtct ccttcacaga gagggcatgc acgatggcct ttaaaactgc attcattcaa 120
 attcctatat gctagaaagt cattaatggg gcccaataac attgacaca acattgaatga 180
 tcaattttgga tagccatcaa acacaacaat gcaatcctac tacaactttg tcaagtactt 240
 aatcaaggga ccgagataaa caccaatata ataatctcga ctgtctttggc gctgatagca 300
 tcaattgacaa catcatgtat atttgttgca tggcgcaacc 339

cttcgcgtgtg actagttatg accatttgaa ttctctgaga gcattcgttg ttcaatttcg 180
 agcgtctgga tatattatgc gcctgaatca gacctccgtg tgacaagtta tgaccatttg 240
 aatctctega gaggcttcgc ttctcaattt atagcgtctc gctatgtgat ggcgcggaac 300

<210> 19756
 <212> DNA
 <213> Glycine max
 <400> 19756

agctttcaact ctgcgaagtct ggttcaggcg cataatatat cgagacgctc gaaattgaac 60
 aaagaatgct ctcaagaaat tcaaatggtc aaaacttgtc acaaggaggt ctgattcagg 120
 cgcatttatat atcgagacgc ttgaaattga acaacgaatg ctctcgagaa attcaaatyg 180
 tcataacttg tcacacggag gtccgattca tgcgcataat atatcgagac gctcgaaatt 240
 gaacaacgaa tgttgctcgag aaattcatat ggtcataact agtcacacgg atgtccgatt 300
 catgcgcata atatatctag acgctcgaaa ttgatacagc aatgctctcg agatattcaa 360
 atggtcataa ctttgteca 379

<210> 19757
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19757

ctgatgggtg ctgagaagaca tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60
 gtatgtatac atgattttga tgatgcaaaa gaagaatcaa actaagttgc ttcaaaggat 120
 aagcatggct ttaagattaa tacaagattg attcaacaaa catagccttg cttcaagatt 180
 aactcaagat caagcctggc cttaaaaaaa agtgctttca agacatgcaa ggcctctgta 240
 atcgattacc aagcagtgtg atcgattacc agaagacagg gttgagaaat agctgttgaa 300
 aagggttttg aatttgaatt ttcaacatct aatcgattac catatgttgg taatcgatta 360
 ccagtggaag gtttcaaaa aagtcacgac acttcacatt ataactgtgt aatcgattac 420

acaaacattg taatcaatta ccagtggaga

450

<210> 19758

<211> 394

<212> DNA

<213> Glycine max

gctatc cca gaaagggggg tggg agga ca gggaaa taatcctcca attaaa cc
tatttcaatt tcaatgcaag ttacaaatto ccttaaaaaat gaactcttaa ataatgatto 180
acatogaaca atctgaatat aaatataaag caataataaa taaaagagtt taagggaaga 240
gaaagtgcac actoggatth atattggtht ggccacaccc ttgtgcctac gtcagtcoc 300
caagcaaccc gcttgagaat tccactatct tctagaagct tttacaagtt ctgaacacac 360
atagacagtt cttcctttga gttcatactt cttt 394

<210> 19759

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19759

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gtccacctcc ttgagatgag aagctagagc tttagctacac accccctata atagctaagc 120
tcacccccat gacaaanaaa gatgaaaata caaaaaaaaa aaagtcctta ctacaaagac 180
tactcaaaat gccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240
aaggccccaa cgaaggaaaa acctattcta atatttacia agataagcgg gtcatactt 300
agcccttggg ctcaaaaatat accctaaggc tcatgagaac cctagggcct tcccttggat 360
ctctagccca atctacttgg agtcttctac ccaatgcctt tgcgggatag gatggcatca 420
ataactttca catgg 435

<210> 19760

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19760

tctttgagan aatttccttg agaagctaga gcttagctac tcttacctct ctacataacta 60

 gctctacta caaagactac tcaaaaggtc ccgaaa aac aaggg aaaa cctctactc 120
 ctagaatgac caaaatacaa ggcocaaaag aaggaaaaac ctattctaat atttacaag 360
 aaaaagagagc tcataacttag cccatgggct cgaaaatctac cctaagggtc atgangaacc 420
 ctagggcctt ccttggtatc ctagcccagt c 451

<210> 19761
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19761

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 ctggagttgc tgcacatgat gtccaacgtt atgtcaagga ataagatcgg gctgcacaat 120
 gcacaaggca agataaaatg tctaatgaag aattgaagtt gcaggatcca cgatgtcgga 180
 tacaatgtcc tgacatcctg cccgaaaata ctggagttgc tgcacaatgc ataagtcaag 240
 ataaagtgtc aaatgaagca ttgaagctgc aggatccacg atgtcggata cgatgtcctg 300
 acatcttgcc cgaaaatact ggacacataa atctgttata tctttaacag attattgtgc 360
 agtttagcaag agattagatg atctatcttt aggaacgaat taaaagatca ttanagttcg 420
 aatttc 486

<210> 19762
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 19762

agctcgaaaac atctagattg aatcctagct cctcttaagg acttagttat tatatctgtc 60

[illegible]

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<210>      19764
<211>      412
<212>      DNA
<213>      Glycine max

<220>      unsure at all n locations
<400>      19764

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tettaacata tatatctctt aattccatca aaatagaatt caattcatca agatgatctt      120
taagagatgt acctctcttc atgtgtaaac caaataaaag cctcttcaag aagagctttt      180
tccacattga cttagtcata tacaacttct ccaacttcag ccataagcca cttagcautt      240

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cttcatttgc aatttcatat aaaatttcac cagacaagga aagcaagatt agtgagtggtg 300
 cttttctctt ttgttttgca agttcttcag tctttgaaat agaggccttt tcttttgatt 360
 cagaagccac tttttcttcc acacatgcag aacaaacaa agcctaaana cc 420

<210> 101
 <211> 1
 <213> Glycine max
 <400> 19765

agtgggctac attgatgcac actgactatg gcttggtgca ttttggcaat taaatacggg 60
 aggtccaagt tgtctatcaa agaagatgat ggtgagagta ctacctcta ttaaccaccc 120
 taatcaactt tgtgaaggaa gatgactcag catgaaaagt ataacgagtt ttctgcagga 180
 gtccagactag agctaagaag ccgtctgagc taatacatgc tgacgtctat gggcccatca 240
 agccatgctc actacgtaaa ataattatct cctccttttc attgatgaat ctgaagaca 300
 aacatgggtc tattccgtat agcacaagtc agaagtgttt tctgccctta agaagttcag 360
 agctacagtg gagaaagaaa atcgtttatt tatccacgcc atgaggattg accg 424

<210> 19766
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19766

cgtgggntaa agtctcacia tagtcacgtg ttaatgtttc tttgttagcc gnggctatat 60
 gagacatctt gcgaaacaaa gtcagggttag ccattgactcg cctgtgcttt ttcttgcatt 120
 ccattatgtag caaagtcggt gatccctgca agtatgatga gcagtgaat gaggcctgcaa 180
 ttatactgtg ccagttggag atgtatttct cccctgcttt ctttgacata atgattcact 240
 tgatttgtca gtggatgtac ccggttgagc gatacatgaa gatcttaaca gggatataag 300
 agaatcaata tgggctagaa gcatctattg ttgagaggta catctgtata agaagccatt 360
 gaattctgtt agaatacatt gagaacgcta taactgatga cctctctgag tctcgacatg 420
 atga 424

<210> 19767
 <211> 438
 <212> DNA
 <213> Glycine max

aaagaaattt gtttaataaa attttaaagc tttttttt tttttttt aagatttaatt 121
 aatgcaccaa gtttatgtgt attgctgatg tgcatagatg ttgacagggc tgatatgttg 180
 ttttttggga ttacggcact tgagttggct catggccatg caccattttc aaaatatcct 240
 caatgaagg tatttacatc cctgggttgt tcagagacaa tgtctagaca catgttaaca 300
 ttggacccat tgaagttcat gtgatataat ttgtaataaa agaaaaagag agttcacttt 360
 ttaattcatg tataggttct tctaattgaca atgcagaatg cccctcctgg acctgatgat 420
 cgagataaaa agttctct 438

<210> 19768
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 19768

agcttagaaa gacattatct cattcataac attatgtaaa cttagagagcc atccacaata 60
 tgcgaataaa acatatatga ataattaaag gacatagaac acaataccga atgtaagtac 120
 ataccactag ccatatatca ttgaaggat taagggttaag acacataatc ataaacagcc 180
 aagagccagg ctatataatc ataattgtca ggcatactaa gcaagtgtta aaagaaatac 240
 taagtgttca aatgtcataa aaacatatgc aaatacaagg cttaacgaaca aatataatta 300
 taatctaat atattatccg agaatcaaaa ctttaattcta agtaacaaaa attagatatg 360
 aacacataca tggtaactta ttacttatct cgattaatga accactagaa tgttaagtac 420
 gaataacaat ca 432

<210> 19769
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 19769

agcttataaa gataaatgat gacatgattt tttcccaatc acactatgtt gaaaagctgt 60
tgaagaagg taaatatttt gataatgac aggtttctat tctttatgag tcatcattca 120
ggtttatgga gttttatgga gttttatgga gttttatgga gttttatgga 180
ggtttatgga gttttatgga gttttatgga gttttatgga gttttatgga 240
ggtttatgga gttttatgga gttttatgga gttttatgga gttttatgga 300
ggtttatgga gttttatgga gttttatgga gttttatgga gttttatgga 360
ggtttatgga gttttatgga gttttatgga gttttatgga gttttatgga 420
tttttacttt a 431

<210> 19770

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19770

agcttaagct ctntcaactg cacaagcttc ttgttatttg aagagtatcc ttgtggaacc 60
ttcaccacac gaagacactg acaaaaactt atctttctct tcttggacaa agtatggcag 120
gttgnggggca agtaaatgtt cttcccatca gaccttggat gcaactgtga tegtataccc 180
atataagcta gatcttgacg ggtattcaag ccatactctg tcttgccttg aatgttaagg 240
agcatcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
ctaaggtcaa gatcacacca gtacgaaaga tcaaagaaaa tggacctctt cttccatag 360
caactctgac ttttactctt cttttgggtc ttcccaaata cagtattcag gtgttgaacc 420
cattgatata cctgctcacc agtcaac 447

<210> 19771

<211> 397

<212> DNA

<213> Glycine max

<400> 19771

agcttaacaa gtggaatcag agaaaagtct ctatggcagg ctttaattact ttaattaatt 60

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120
tagtgaggct gacttcaatc caaaggaatt tttgtgggg aggaggtgct gaagggaaaa 180
agatgccttg gatggcttgc gatcatatat gtactcctag aaatcaagga gggttgggta 240

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120

ctgtttctgac agccttgcct ttattttata tgtttttctt caaagctcct tcagcagcgt 120

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<210> 19772
<211> 285
<212> DNA
<213> Glycine max

<400> 19772

gggcctatga cagtggcaag cctgaacga atgattcttg cctatgttgt ggggggctag 60
tgcacagaa ctacctctg tcaactatac tcagagatgc aatctgacac cttatgacac 120
atatcaggta tatattgtca tgactttcaa gacatactta ctgtggcctc gagagattca 180
ggactgacca ttgcccatag tatgaacaca tctgcctac tgcattacgt ccatacgaag 240
gtccagtc aagagttctct gctaccattg caccacgaca cagtg 285

<210> 19773
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19773

cgcttgagct ggtatctgng ttaaaaaana attcgcattt ttctttgttg gagcaattgg 60
gaagaatgag cagtggcaga tggaggcagc tagatacctg aactgtggag ttctgtcctt 120
tccttttga taattgggta tccccattgg ggataatcca agatgtagtg atctttggga 180
tcttatagtc agaaaattcg agagaaaatt agctttcttg aaacaccaac atatttcatt 240
tggtggggaga gtgacactca taaatgcagc cctagcagca atccctatct accttttttc 300
ctttattagg gtaccttcaa gagtaatac cagattggaa gcaattcaga ggcaattctct 360
atggngagga ggtatggatc agagaaagat tgccttggtt aattggaaaa cagtctadaa 420
tccaaaggat atagaggac ttggc 445

<210> 19774
 <211> 402
 <212> DNA
 <213> Glycine max

atgtaagtaa taagtaattt ttaattatgt ttatagaa ataatatata taatantat
 taatataaa tttagagagt ttgaataat ttatataag ttatataaa aaagttagtc 120
 gtgttcaccc actaacacca tgcagcgcaa agggaagcat ctctgtccaa tctttgtatg 180
 acaaggtaat cttctgaact atatctctct gatattntta tttagcgccct caactgcctc 240
 attcatotta agccagtaag gcatggaatt atggtgttag atnttgaaat cctcacacat 300
 ctctctcact atcttgttgt tcagattggt ggcattgaag gtgataattt tctttagcaa 360
 cccatategg caaattatct ccttntgat gaaactaatc ac 402

<210> 19775
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 19775
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 gtagtgttg aacatgggtt ctagtaatgt aattccaaag acacctcttg agctgtagac 120
 aaataggata cctactataa tgcacctgca tgtatggggg tgcaggcag atataacgat 180
 ttataatccg caagaaagaa aattggatgc aagaacaatc agtggatatt tcattggtta 240
 tccagaaaag ttaaaagggt gtatgttcta ttgtactact catagatgag aactgacaaa 300
 ct 302

<210> 19776
 <211> 451
 <212> DNA
 <213> Glycine max

<220> unsure at all n locations
 <400> 19776

ntgatgaaag tgcagtcga aggtagccaa atacgccttc tatgtttaac gaattgggc 60

gttaacacat gatcagggtg gtctgctggg ttgcgatgaa ccttctccct taaagtgatg 120
aagtcattat ggcactgcaa ctctttatag agatcttcaa gaaacacaaa atgaggcatt 180
cagagatgaa gaaatcaggt actagataat tctgaacata ggcataacac ctctccaaac 240
ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct
ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct ccttctctct
tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct tcttctctct 300
gtaatgcagc tgagtccacg aacataagtg g 461

<210> 19777
<211> 434
<212> DNA
<213> Glycine max

<400> 19777
agctgtgccg tgatgggtgca ttgaaattg gtgattgggt ttatgttcgc cttcgtccct 60
accgccagac gtccatagcg tcgacttaca ccaagctttc caaaagattt tatggcccat 120
tccaggtact ggatcacata ggcccagtggt cttacaagct tcagctgcca ctttcttccc 180
gcatacatcc agctttccat gtatccctct tgaaaccgca tcttggggca tcttcgacta 240
caactgccac attgccatct acagggaaca accaccaact cttgggtctct cctttatcca 300
ttctggattg gaagtgggac cattcatctt cccacacctaa caagaaagtc cttgtttagt 360
gggatggctt agcatcgaag gatacttcat gggaactatg ggacaagctg cgtgttgctt 420
atgaccttga ggac 434

<210> 19778
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19778
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cccagaacag gtcagaactt tgaaacatat atgaatatga tgatgactat gaaactgata 120
ttgattccaa taaagcatcc atgtaactct taagtttcaa ttttgtaatt gcaccttcca 180

ttctgcttctc tggaaacttcc tgccegttct tgaagagtat taatgtcggg agtccataaa 240
 ctttatactc ttaaattact tgcgggttga catcatgac aatctttaca accgttaatc 300
 tgccttcata ttcttgcaag ttattattat aaaaaataat catgggtccag gggagacaaa 360

<210> 1479
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19779

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 tcccgagagc ttccgttgtt caattcttag catctcgata cgttatgtgc ctgaatcggg 120
 catcgagagtg aaaagttatg accatgtgaa ttctcgaga gcttaagtag ttaaatttct 180
 agcggcatga tacactatgc gcgtgaatct gacatgcgag tgaagagtta agagcatttt 240
 aatttctaga gagactgcga tggtgaaagt cgagcgacat gatgtgtcat gtgcctgaat 300
 cggacatgcg cataatacgt tatgaccata tgaatctctc cggagcatct gtctgtcaat 360
 tacta 365

<210> 19780
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 19780

tgatttcttg gcctgcttgt gctccttttt cgggtgtctg ttattttcag tgcctttagg 60
 ccttgggaata ggggtaagat aggaattctt taatctgctt cctgccatta gaaacctaaa 120
 attcattgta tgcataact atgtgtttta tattactgac ttgcacaaaa tcttcaggtg 180
 gcaatatcag tcttcaagat cttgcttcat gtctctaggg caaacacact ggttttgggg 240
 aatataaccg ggaagccaat attccacaa cctataccaat atagagaagg ttgaggatc 300
 ccttcattta ttatttttgc tcttgaghet cccatctact ttgctaattt aacatacca 360
 caagaaaagt tagataaagg gaattgtata ttggcgattt gtgaatgctt actacatct 420

aaat

424

<210> 19781

<211> 439

..

ttgtgcctttt cactgtctgga atatgaatgt agcctataga ttcaagaccc cttaggttgc 60
ttgttgatgg cttcttcccg atccaagctt caattggagt cttgtctttt acagacttag 120
ttggacatct gttgagtatg taaacagcag tgtagaactgc tttagccag aatgtgttag 180
gtagtccctt ctcttgagc atcgatctag ccctctccat aattgtgoga ttctttctct 240
cggacactcc attttgttga gaagaatag cgaactgtaag ttgtogctca atgccttcat 300
cctcacaaaa cctttcaaac tcgcgagagg tgtactcttt gctgogataa cttcttagta 360
cttttaccg ttttccactt tgattntcag caagggcctt gaactttttg aatactccaa 420
agaattctga ttnttcttt 439

<210> 19782

<211> 439

<212> DNA

<213> Glycine max

<400> 19782

gatctctaag cgactgagca tgcaagcttt gtactccact aaatttgcct ttgtttgacc 60
aaagctaata ccgctgacaa ccttgtgaaa gctgtgcacc caggatacaa aggcattctt 120
gaatcatttt ctattttctc atacaaaggt acatgtgctt gttgaaatct gtctgcccc 180
aaattgcaaa ctatgtcttc tatacgggtat cccatgtcta catcgactga ctacaggtga 240
gagactgatg gcttgttttg caattcccca tgcctatccc attttgtgta atttggaatg 300
atcctatgac atatattgac tgggtgtctcc ttttccaca ttttaccat ggacagaaaa 360
atttaccocg cacacatggg gcattgagtt tagtaaatgg gaggaattgg tcaactctat 420
cttcatactc gtcaatgat 439

<210> 19783

1400 19783

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<L10>      19784 .
<L11>      405
<L12>      DNA
<L13>      Glycine max

<L23>      unsure at all n locations
<L30>      19784
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```

#210>      19785
#211>      443
#212>      DNA
#213>      Glycine max

#223>      unsure at all n locations
#413>      19785

```

tgaaggtgtg tagccaccca tcttttcata gttgaatatt gttaatgtgt ctactattat 60
 tgtcatcacc tttttctccg tcattgaggt gccacttgag ctgccaggtc tctccacett 120
 tgggggtatt cttttgaaga atttgtgcc cttttttgca catgttttgt agttgcatec 180
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
 aatttagat ggttttggg gcaagtaac ccttgtact tgtcatagtc cagcaattg 240
 aacttgagag ggggtgatgat att 443

<210> 19786
 <211> 231
 <212> DNA
 <213> Glycine max

<400> 19786
 tcgaacaaca gaagctacga gaactacaat ggtcattata tgtcacacgg aagtcgatt 60
 caggtgcata atatatcgag acgtctgaaa tacaacatcg gaagctctcg agatattcca 120
 atggtcataa cttgtctcac ggatgtacga gtgacgtgca taatgtatca agaagctgga 180
 aattgaacaa cgaaagctct cgagaaactc tgatggtcac aacttgtcac acggacattc 240
 gacacacgcy cataatatat cgagacgctc gaaattgaac a 281

<210> 19787
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 19787
 agctcgaatt tgaacaacag aagctcttga gaaattcaaa tggccataac ttatcacacg 60
 gaagtcggaa tcatgcgcac aatatacga gacctcgaa attgtctcacc aggaagccct 120
 caagaaagac aatgggtgat aactcttcaa acggaagtc caatcacgag catatatata 180
 tcgaagaagc tgaaattgaa caatggacgc tcttcagaaa ttcagtcagt catatctcat 240
 cacacg 346

<210> 19788

<211> 470
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19788

ttaattgaaa ttttaattttaa tttttatttt tttttagaatt ttttcattaga ttttcgttttc 180
 aattacgagc gtttcgatat cctacgggac acaatcgaac atcccgagtc aaagttattg 240
 ttgtttgaat ttgttcagag cttcagtttt caattacgag cgtgtggata tattacaaga 300
 ctcaatcaga cctccgagtt aaaagttatt gtctgttggc ctttaataga gcttctgttt 360
 ttaattagag cgtctccata tattacgaga ctatattaga cctccgagtc aatagtatgg 420
 ttgtttactt tcaagagcgt ttgctgttaa tttagcggc cgatatatat 470

<210> 19789
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19789

agctttgagg aaattcaaac gacaataact ttgactcgg atgtccgatt gtgtcccgta 60
 gttcttcgag acgttccaaa ttcaaaacag aagctattag aaaaatctat ggacgataac 120
 tttttacacg gatgtcccat tgagtcctcat aatatatcga gacgtctgta attgaaaaca 180
 gaagcgtga ccaaattcaa acgacaataa cttttgactc agatatccga ttgtgtcccg 240
 taatatatcg agagctcga aattcagaac aaagctatta gaaaaatcaa acgacgataa 300
 ctttntacac ggtgtccga ttgagtcctc taatatgtcg agcgtttga tattgaaaac 360
 tgaagctctg agaataatca aacgaccata actttttaact cggat 405

<210> 19790
 <211> 469
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19790

tgttagaaaat cganacgaca aannattttta tctaagattt cogaataaat tccgtagtat 60
 atcgagacgc tggaaattca aaataaacct ctcagcaaaa tgaaacgaca ataacttttt 120
 attgaaatc tggaaatgaat cgcataaat atcgagacgc tctaagattt aannattttta 180
 tgaataaatc tgaataaatc tgaataaatc tgaataaatc tgaataaatc tgaataaatc 240
 tgaataaatc tgaataaatc tgaataaatc tgaataaatc tgaataaatc tgaataaatc 300
 tgaataaatc tgaataaatc tgaataaatc tgaataaatc tgaataaatc tgaataaatc 360
 gctatgagca aattcaaacg acaataactt ttaactcgga tgaataccgt aatatacga 420
 gacgtctgta attganaaca aaagctctga gcacattcaa acgacaata 480

<210> 19791
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 19791

agcttctggt ttcaattacg agcgtctcca tatattaacg goctcaatcc gacatcggag 60
 taaaaagtta ttgtcgttag aatttgcctc gagcttctgt tctgaatttt gagagctctg 120
 atatactacg gaacacaatc ggacatctca gtaaaaagat attgtcgttt gaatttgctc 180
 agagcttctg ttcttaatta cgagagcttc gatataattac gggattcatt cggacattca 240
 agtaaaaagt tattgccgct tgaatttgct caaagcattc gttgtcaatt acgagcgtct 300
 agatatatta cgggattcat tcggacatcc gagtaaaaag ttattgtctt tttatcttgc 360
 ccagagcttc tgttttcaat ttcgagcacc ttgatataatt acatgactca atcggacacc 420
 cgag 484

<210> 19792
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19792

tataagttag goctngtgag agaatgtgtc caaacctctc tatatcagta cttgtagtaa 60
 taaagctgac actactacta ctaaggcaag tataagatgc agcatcgacc aaagcttctc 120

gaagaacaaa tctgttaagg gtaccacgga acttcttgaa cagcatgtgt ggaggcccca 130
gagagggttg ccagagcgtg cagtggcaat tcttaaagcc tgggtatttg agcattttct 240
tcctccgtat gttagtctct atctatgtct cttattaata tattctctgc ttctgtgaac 300
ctctctctct cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc
ctctctctct cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc

<210> 19793
<211> 412
<212> DNA
<213> Glycine max

<400> 19793
agcttatata ggaagcttca aaggagaaac aaaatgagag agaggggaaa aaagtgcacat 60
gggaatgaag gaaagatggg gaaagaagtt gaactttgac tegtatgcaa tatcatactt 120
ccagagttca attgaccatg tcctcatttg tctgactaac tcaggcttgc gtaatatctt 180
gctctattggg caatcagttt gaacagtgat cttgtggctc tgaaagtatt gtogaaggta 240
gcaagcggcg ttgaccagtg tgagggtac cttttccatc acctgttacc tegtctctag 300
atcttacagc tcccgaacta caaagtatat cgacctctgc tatcttctct cctcttctat 360
caataccacg cttatggcct cgatcgagat cgacaggtaa acaatcaate tt 412

<210> 19794
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19794

agcttatgct acaaacatct acaacagacc tcttcaacct cagcagcaaa atcagccaca 60
acagaacaat tatgacctct ccagcaacag gtacaatccc ggggtggagga ataattccaa 120
ccttagatgg tgaattctt cacaacaaca gcaacaaca caaccttatt ttcaaaatgt 180
tgtatgccca agcacaccat agttctctcc accaatccag catcaacagc agcaacagcc 240
ccagaacaaa caaatagttg aggtctctcc gcaaccttcc ctggaagaac ttgtgaggaa 300
aatgactatg ctaaaacatgc agtttcaaca agagaccaga gcttctcttc aaagcttaac 360
taatcagatg ggacaatttg ctacacagtt aaatcaaca cagtctccaga attctgacag 420

attaccet

427

<210> 19795

<211> 489

<212> DNA

<213> Glycine max

aggttcccaa cgttttgttt aaatttctcc aaacattaga ggttttatag aatctctatc 60
agacactatg ctagatggga caccatgtaa ttgacagtc tcaactaatgt atagggaggt 120
caactctctc aaggaaaaac taatattgat ggggataaag tgtgtagatt tggccaatct 180
gtcaacaaca acccaaatag aatcaaaaac ttggggggtc ctaggtagtc ctacaacaaa 240
atccatgggg atactatccc acctccactg nggtatctct aatggttgta acctacctga 300
aggtctctga tgttctatct tagccttctg gcagactaaa caagtatata caaactcgtt 360
aaactctctc ttcattgttg gccaccanaa cattatcttt agatccggat tcatcttggt 420
agcaaccaagg tggatgctca nngtgctcct atgaccttcc tataagatca tcttctatg 480
ttcggcaca 489

<210> 19796

<211> 407

<212> DNA

<213> Glycine max

<400> 19796

agcttagact gagttcctcc taccatcttc agactaatgg ccaaaactgaa cggaccattc 60
attcgttggg ggaactttta agagcatgtg tottagagca gaagggaagt tgggagagtt 120
ttcttccatt gatagagttc acctataata acagttttca ctctaccatt agcatggctc 180
cctatgaagg ttgtatgat agatgatgta cgacacccct atgttgggta gagcccgag 240
aaggcctcac cttatgacca gacgtggtae aacaaaccac tgagaaagtt tagttaattc 300
aggaaaggat gagaactgct cacagtacgt agaatagtta tcatgataag aggaggaaag 360
aattgggaatt cgaagttagc gatcatgtat tcttgagagt caactctg 420

<210> 19797

<211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19797

gagatgagagc gagatgagagc gagatgagagc gagatgagagc gagatgagagc 151
 gagatgagagc gagatgagagc gagatgagagc gagatgagagc gagatgagagc 201
 angattccctt ggccaatata ctgcaattc aataaggatt tatttgagtg ctcaaattgt 240
 tcaatctatc tcttcaaga gagatttctt ctctcttca ctctaattct canaaaggga 300
 taaagagacc gagggctctt tgttgatag aaatctgaac acanaggaag gattgtcctt 360
 gtgtggttca gaacttgtat agggatttac aagatagtgg aactctcaag c 411

<210> 19798
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19798

gtgggtntca attacgagtg tgcgatata ctacgggact cttttgacat ccgaatcana 60
 agttattacg tttagactttt cctagagctc ccgttttcaa tttctagcgt ctcgatatat 120
 taaggggctc aatcggacat ccgagttaaa agttattggt gtttgacttt tottagagct 180
 tccgttttca attttgagcg tctcgatata ttacagggct cgattagaca tccgagttaa 240
 aagttattgt cgttagattt ttctcagagc ttccgttttc aattacgagc gtctcgatat 300
 tctacgggac tcagtcggac atccgagtca aaagttattg tc 342

<210> 19799
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19799

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 gcttaaccaa gggaaaaaga gtcactttac cctcaacggt tgttgggagc ccattgtata 120

tggatcaact ttactttgat ggtatggcaa tatgcagtea tgttgggtct ccaaatcttt 130
 ttattactct aacctgtaat ccaaattggc ccgaaattcg tagattactt tcacotttga 240
 atctcagacc aatagacacg ccagatatcg tctcagcact ttccagatta ataaatatga 310

<223> unsure at all n locations
 <400> 19800

<110> 19800
 <111> 507
 <112> DNA
 <113> Glycine max

tattaaggac acatagata ctacgtana cattcaattt ccgagtctc gttatattac 60
 gggactcaat ccagacatcc agtaaaaagt tattgtcgta tgaattggct tatagcataa 120
 acattcaact ttgagcctct cgatatatta cgggactcaa tcagacatcc gagtaaaaag 180
 ttattgcggt ttgaatttgc tcagaggttc aacattcaat ttogagcgtc tcgatataatt 240
 acgggactca atcagacatc ccagtaaaaa gttattgtct tttgagttgg ctccagaggtt 300
 caacattcaa ttccgagcgt ccgatatat tacgtcactg aatcggacat ccgagtaaaa 360
 agttattgtc atttgaattg gctctgagct tgaacattat attacgagcg tctcgatata 420
 ttacgggaact caatcagaca ttccagataa aagtattgtc gttgaattgg atataagaca 480
 acattcaatt ccagcgtctg atatata 507

<110> 19801
 <111> 342
 <112> DNA
 <113> Glycine max

<223> unsure at all n locations
 <400> 19801

agctttatgc caattcatac gacaataact ntctactcgg atgtctgatt gagtcccgca 60
 atataacgaa acgtccgaaa ttgaattgctt aagctctgag ccaattctaa cgataataac 120
 tctctactcg gatgtccgat tgaatctcat aatatatcga cagctccgaa attgaattgt 180
 gaagctctaa gctatttcaa acgacaataa cgttctactc ggatgttcca ttcagtgacg 240

taatatatcg ggaagctcga aattgaatgt tgaacctttg agccaactca taagacaata 300
 aacttttact cggatgtctg attgagtcgc gtaatatatc ca 342

<210> 1
 <211> 2
 <212> 3
 <213> 4

<210> 19803
 <400> 19803

atgaagtggc tngaccttcc catactgagt atcatggact gtattctcct acttttggaa 60
 cattatttta tctcgaatat ctgacttgt cttcaaacaa gtttgaaggt tcaattcctc 120
 ccaaatgttg tgcctctaagg agcctcaaaa cattgaacct ttccaataac tgcctggtgg 180
 gagagatacc aaacgaactt catggccttg agagtctaca ggattttcat atattcaaca 240
 atcaattgag cgggttgata ccatcttctg tagygaattg gaccaatctg agagtgtgtg 300
 ctgcttatga gaataattcc tatggaacgt gtacaagtaa acttggatct atttatgagc 360
 ttacaacact taac 374

<210> 19803
 <211> 233
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19803

tatgaaagct cttgagcatg tccaatggtc atatctttca caagacggtc agactcacgt 60
 gcataatata tcccgacgct cgaactgat caacggaagc totacatata ttcaaattgt 120
 cataactgtt actcggacgt gcgaatcatg ggcataatat atccagacgc ttgaaattga 180
 acaacgcgaa ctcccgagaa gttcaaatcg gcataacttt ttactatgag gtc 233

<210> 19804
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 19804

agctttatct agataagtat gattcaggggt ttccacaaac tgagttagcag atggattttt 60

ctcaaaaacat gtttaccaaa gagttttact ctctggtaat cgattatcag attattgtaa 120
 tegattacca gcacccaaat ggatttgaaa aagctttcaa actgaattta caacgttcca 180
 attaatcca aagaactga atcgaatga atcttttgtt aatctattac taatggaatt 240

atctgacttt ttcgaagaaa ttggaatttt 300

<310> 19805
 <311> 370
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19805

ccagggtgct ggaactactt cattttgact tgatggngcc tatgcatggt gaaagccttg 60
 gaggaagag gtatgcctat gttgttggtg atgatttctc cagatttacc tngntaaact 120
 ttatcagaga gatatcacat acctctgag tattcaaaga gttgagtcta agacttcaaa 180
 gagagaaaaga ctgtgtcctc atgagaatca tgagtgaaca tggtagagaa ttgataaca 240
 gcaagttcac tgaattctgc acatctgaag gcacactca tgagttctct gcagccatta 300
 caccacaaca gaatggcata gttgacagga gaaacttgac cttgcaagat gctgctctgc 360
 gcatgcttca 370

<310> 19806
 <311> 426
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19806

agcttgcaaa gttagaaata tcttggttga ttccgatggt gtgaagtcaa ggaaagattt 60
 ttctattgac atgatgaggt catctatagt tttaggagcc tctttgtgtt gtaatgactg 120
 aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtctg ggggttgaga 180
 aaccaatga atgtcaaac cgccttcaact agcagcttaa tggaaagtgt tgcctcttcc 240
 atcaangtga catggagcat tgtcttggtg targaataa gtctctctcc tatcctctat 300

tggccatttt gctttgattg cagacaacac atgatgaata agaanatgtt tgcttaacttg 360
 ttttaattatt gaagatattg gttntgttcc atagtccctg tatctcttctg tgcactccct 420
 ctctctt 444

<210> 19803
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations
 <400> 19807

ntgagcaaat tcaaacgaca ataaagtctt actcggatgt cggattgagt ctctgaatat 60
 atcgagaagg tcgaaatgga ataccaaagg tctgagcaaa tcaaacgac aataactttt 120
 tactcggatg tcttattgag tcccataatt tatcggaaag ctcgaaatag aataccgaag 180
 ctttgagcaa attcaaacga caataacctt tttactcgga agtcggattg agtcccgtaa 240
 tatatccaga cgtcggaaat tgaatgttga agctctgagc aaattcaaac gacaataacc 300
 tttatactca tatgtcggat agagtccctg aatatatcga gacgctcgaa atggaatacc 360
 gaagctctga gcaaattcac acgacaataa ctttatactc ggatg 405

<210> 19808
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 19808

agtcttttga tcaatttcg agcgtgtcga catattaagg gactctatca gacatccgag 60
 taaaaagtta ttgttgtttg aatttgytca gagcttcgat aatctatctc gagcgcctcg 120
 atatattacg ggactcaatc atacatccga gtaaaacgct attgtcgttt gaattcgctc 180
 agagcttcgg tctttaatat tgagcgtctc gacatatgtc tggacttata tccacttcgg 240
 agtaaaaagg tatttgggtt tgaatttggc cagaacttcc ggattcaaat tcgagcggca 300
 cgatttatta cgggacttaa tctcacatcc gaatcaaat tattgacgtc tgatttgcca 360
 gaacttcggt attcat 376

<210> 19809

<211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19810

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ctgtactggg tgcctctctc cataaggccg acagctgctc attatttta tttatcttca 180
aaaattatga tatatataga gttgcattgc cttttatctc acatcagcat gttattcata 240
tgcgaagaat ttattactag tgtcttcata ttctgatat attgtctcaa gggtttgtca 300
ctacgaattt ggagtgtttg tttggttaga ctggtatgtg atgtgtcttt aggcagatat 360
gaatctgtgt gacaggtatt gcatggcggg ttattagcat gtatgggtgc atttgaatct 420
ggagaaataa ttgtatattt tcacaagctc tctcagcta 459
  
```

<210> 19810
 <211> 357
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19810

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agctntttct tatggctctg accacacatt attataacga acacccttaa tgtcataaac 60
cataagttta tgattaaaaa aaatgttggt tagcatgacc tattagggtca tcccatgtca 120
actataatgt ggaaaatatt taaaaattca tgtggacatc catggaagag ccagaagatt 180
cttcagttca atgatttctc atgtactatt tattctcaaa ggaagttggg aattacacta 240
tcaccaagaa aaattggaaa tgagtctatt ttatttttag aacggatata atgtgatatt 300
tgtggatcaa tatattcacc atatggatca tttagatatt tcatgatgca tcaacta 357
  
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<210> 19811
 <211> 449
 <212> DNA
 <213> Glycine max

 <400> 19811

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ctcatgagag agtcaaaagat caaactcaga ggagatataa aagctatgtc tttctaccca 60
  
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[illegible]

```

<210>      19813
<211>      478
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      19813

ccgtatagtt tatcaattca actcgagatt tgatataaac atccaaattt caatgtttcc      60
ccaatgttga tacagaataa cagcgatact catntaata tacagagagg gacatgctat      120
gatacqucaa tgatataaga gaatatugca aattucaact tataaattaa tttaaaattg      180

```

agtttaatac tcatgcactc acaagtttaa tggccaatca atcataaata tttattaata 240

tataactttt aaggtataat ctattttctc tttaaaatta atttatttcc tttttaaaaa 300

taaattagaa taaaagttca gattataaga gaattcatat tatagaaatg aacataagtc 360

aaatgaaat taaatgaaat taaatgaaat taaatgaaat taaatgaaat taaatgaaat

aaatgaaat taaatgaaat taaatgaaat taaatgaaat taaatgaaat taaatgaaat

<210> 19814
<211> 423
<212> DNA
<213> Glycine max

<400> 19814

agttttaaatg tccctctggg ctttacacca ttgttttata ggttatctca agtttctcaa 60

cttattttta agggcaatto ccccccccc ccaaccaccc tatagatctg tattccaago 120

ctttttgato atagagtggg accctttatg attaagccac cagtcacaaa cccgaaaagg 180

cttagggccc cagtcaccca tctttgtctt caaaatgatt ggacaatgat cagaataatc 240

tctttgaagg acatgtttgg aagtatcagg ccacaaggat aacctctgat cagacaccaa 300

gaatctgtcc agcctactct tggcaactgc attgagccta aaccaagtaa aatagctgcc 360

aaagcatcta atatcatgga gctccatctt tgatatccag tcattgaaat ctgaggtatc 420

tga 423

<210> 19815
<211> 401
<212> DNA
<213> Glycine max

<400> 19815

ttcagagtgc tgtatattga tgcgcctgaa tcggacatac gagtgcacaag ttatgaacct 60

ttgaatttct cgagagcttc ctatgtttta ttttgagcgt ctccgatatat tatacgcctg 120

aatcgaacct cagtgtgaaa agttatgacc atttgaattt ctgttagagca tccgttgttc 180

atttttcgagc gtctctatat gtgatgaacc ttaatcggac ctccgtgtga aaagtaatga 240

ccatttgaat tcttcgagag ctcccgttgt tcaatttcga ccytcttcgac atathatgag 300

cccgaatcgg acatccgggg gaaaagctat gaccatttca atttctcgag agcttccgtt 360

gttcaatttc gagcgtctcg acatatgatg cgcccgaaac g

401

<210> 19816
<211> 240
<212> DNA
<213> Glycine max

gagcgtctcg acatatgatg cgcccgaaac g
ttgttcattt ttacagctct ctatcttga ggacgttga tgggaggt ct gggtgaatag 120
ttatgacctt gttgaatttct cgagagcttg ggtgtgtcat ttaagagcgg cgctacctat 180
taagcgtccg ataacgacat tcagggaata aggtatgaac ttatgaattg caaaagagct 240

<210> 19817
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19817

tcaagaattg atggcctcat cataactacta gttccctgaa cgcaattcaa ctaactctgc 60
tccattgtt aatggagtgg gttaccatta ttggaaaaac cgcatgcaaa tcttcataga 120
ggctatagat ttaaactatt gggaagccat agaaataagg ccttgtattc ccaccatggt 180
tcttggaat acaacaatag agaagcctaa ggaagattgg agtgaggaag aaagaagaac 240
agtacaatat aacttaaaat ccaaaaacat aattacatat gccctaggaa tgaatgaata 300
ctttagggta taaaactata aaaatgcaaa gggatatgtg gataccctac aagtaacaca 360
tgaaggcaca acanagtta aaagatctag gataaacaca ttaactcgtg aatatgaact 420
atntangatg aatgcanatg anagtatgca agacatgcan aagaggttca cacacat 477

<210> 19818
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19818

taatatatcg agacgatcaa taatgaacaa cggagcctct cgtgatatta aaatggctat 60

aagttgtaac tgggatgtcc gattcaggag cttcacatat cgagatgcac gaaattgaac 120
aatggaagct cttagagaaat tctaattggc ataaattctc acacggaggt cctattcagg 180
cgcttaatat atccagacgc tcgaaattga acaatggaag ctctcgagat attcaaatgg 240

<210> 19819

<211> 420

<212> DNA

<213> Glycine max

<400> 19819

<410> 19819

<411> 420

<412> DNA

<413> Glycine max

<400> 19819

agctttccaa tgtcttccaa catcaaatca atacaatggg ctgcacaagg agtccaataa 60
atatgtttcc tttgtctctc taacaactta cccgctaaaa catagttaact cctattatca 120
gttacaactt gaacaacgtt ctcttctcca acttctctca caatagcacc aagcaactca 180
aaaagctttt caccgtgtct cacaaaatca gagccatcaa cagacttcaa aaacattgta 240
ccagcttgag agttaaccaa agaattaatg atgcatcttt gtttcogate agtccatgct 300
tcgaacataa tagtacaacc atacttgacc cattgtctct tgtagtcttt catcagatct 360
ttagtgcagt caacttctt cttcacgagt ggaactctga tatcatgaca gctcggaatg 420

<210> 19820

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19820

agcttgacca ggaattactt gtatgggttg gatgttgaat tctgggttgt cctgggtgagg 60
agatgatggt acagogggtg aaccagaagc ggaagtctct tttgggtgagg tagccatgga 120
aaagcagagc gtttggaatg atttcgtaaa ttccagaagg ctattgggaa atgctggtaa 180
aaacacgaat gccaaacaga tataaatttg aatgaggaat gtatadudtc ctgtgaagca 240
acggtcgaat tttcttgggt tcagtagtga acgtgctatt aatgttaagt gattcgtttg 300

ggcaggttca gattgctgta gttgctataa ttctcttagc acacaaatgc ccagcttgcc 360
 ctccagttnt tcaaaactgat ttgcattcaa agcctttgtg aacatatctg ctatttggtc 420
 ctccag 480

<310> DNA
 <311> DNA
 <312> DNA
 <313> Glycine max

<323> unsure at all n locations
 <400> 19821

ggatgcatac aacctatatg ctccaggttg aggggggagag ttgagatatt atgtagatta 60
 cagagatata tattaagaga catgatacga gttcgattta gttatatcag atttgatttg 120
 tatttatgta gatgagatct ttctctatagt gtaatttagga tcatatttct agtgcacattg 180
 tatctttaga attacctcta ttcatgtatc ctttttacag tttaatcaat ccgaaatata 240
 cataacttctt caattatttc ctccagttctc aaatatacca tgttgagtgt taccagcaac 300
 aaattttcag tataataaag tattactagc tatttccagt ccagttctat cagaatgtan 360
 aagaagggag ttaagttctt acaacagcaa caacaccatc atatgagtta agcttcacat 420
 ttgtcanaga agacatcaca tcaaatgcct ctctgtctct ctctgtcaca atcacctagt 480
 aat 483

<310> 19822
 <311> 358
 <312> DNA
 <313> Glycine max

<400> 19822

atgatgttcg tgttgaacgc attacatgta gacataccac atgctttata ttatgtgcat 60
 acagagctac atacatcttg gaaacgatac atacggacat ttgtgggcca taccatacgc 120
 ctccatggaa tggtaacaa tattctatat cattcataaa cgattactcc agatgtgcat 180
 acttgattga tatacatgag aagtcacaat ctctggatgc gttcaaaaaca ttgaaagtcg 240
 aagtgggaaca tcaactcaac ctctgaatgc actgtgtcag atctaaccgt ggtggtgaat 300
 actatgtcag atatgactgt tcaagtgaaac aacytcacga gcttatctgc acataact 358

<210> 19823
 <211> 425
 <212> DNA
 <213> Glycine max

gaatccatca ggcacatttc attctcagtc cagcatcttg ggatgtccc agcctttgat 120
 gacagctttc caggtctctgc taccagtgga ttgaggaag gccaccatcc ttgttttcca 180
 gttatccatag ttggttccat ccagaattgg tggctctgttc actgggtccc ottttttctc 240
 catgttccatc agaattttat tccctaggtc tcactcagtg atttcgagtg cccgtctctga 300
 taccgaattga aattctgata ccaatgccag atgtcgtaca ggaatgtcag acatcacgct 360
 ttagaacaag cagatttatc ctgagtgtat gaacagattc tacaagtaaa taacacaaga 420
 gaatt 425

<210> 19824
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19824

ngagagagat ctcaagaacc ggaggttgc tagggactgg atgtatttac tggttgttgc 60
 cgaaccagta taaaattctt gtgttgttct tctttctcca taaactattt aatttccggt 120
 gttgaattta cttttatgct ataattttgt ttaagttaca taacttagta gtaaagccta 180
 attgaattct gtaacattaa gaaggatcag ttttaattag tcaaggttac ttaataatta 240
 attcaacccc cctattctca attactccaa ggccacttga tccaacacat tgtaccctga 300
 gcaactgcca gatagttctt cttcttttc tttcttttc ttaagagctg aatgtaatcc 360
 atgtaccctt atgggtcttc tctgatatta tgtatgtatt catctttctca cctttatcat 420
 tagtaatttc atttca 436

<210> 19825
 <211> 423
 <212> DNA

cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaaactgc tttcaggaaa 240
aaagttgtaa aaattgatac aggttggaaa agggaatttt ccttccgggc ttggagtcct 300
cccaatttaa ggcagaaccc atccactcca atttctgcag tttaaaactt tctctactta 360

<210> 19830

<211> 365
<212> DNA
<213> Glycine max

<400> 19830

agcttgccttc ttgatgaaat ggctataaat gcatttaagga tctatatagt attacaacaa 60
caaccacaada ctgtcgatgc gtactttgga agataggtaa catctcggca ttcataaagt 120
ctgtcgatct ttatttggaa agatttgcct cctctccgac ttgggtaatg aaagcatggg 180
aaacaactca agatgaaacg atgaactgctg gtgtgttggg tgcctgtggat ttcaacacat 240
tcgggtgtgtt caacttgctc aatcattcta aaaccgaaac ctcttgaacc tttatgtctt 300
atattgtggc atgctatggt gaaatggtta tactataagt ttaatctgaa atcacaagat 360
gcaacctact tgtgaagtat cctaate 387

<210> 19831
<211> 365
<212> DNA
<213> Glycine max

<400> 19831

agcttagtct ggctggatat gaaattcttg gttgaaaatt cttttcttta agaatgttga 60
attttggccc ccactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
tgatgggttt ccttttgtyg gtaacccaac cttctctatct ggctgcgctt aatatttttt 180
ccttcatttc aaccttggtg aatctgatga ttatgtgtct tgggggtgct cttctcaagg 240
agtatctttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300
tggggaattt cctctggata atatcctgaa gagtgttttc cagcttgatt ccattctccc 360
tgcca 385

<210> 19832

<211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19832

gaggctttaa ttttaatttt tttttttttt ttttaatttt ttttgaagga gttgcaattag 180
 ttaatatagagg aattagcatt aatactttctt attttcccaac gcacaaagag cactgtcata 240
 atttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
 ttagaaaagg ctatttttagg gattgctaag ettatttgga tagaacacat tttataagca 360
 catttaataa gattcatgtg caccaagatc ettcaacttt 400

<210> 19833
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19833

agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
 aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acatactgca gaatgcatca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
 tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tatttggcctt aaaattattg gccttattgg cctgatgagg tagagagaga gagacggngg 360
 tagaaagttt attcagagga atagtaacaa ag 392

<210> 19834
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19834

agctttgggg tctcctgag tttttggata tttacttttc tttcttttga tggcctgtgt 60

caggttaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtagc tttatttcat 120
 agaattagtt attgagccct cagaggatag agggaaagtc ttcctctca tatagaaggg 180
 aaaaggtagc tccgagagtg ggagaatata tttataatc attctctaa gactacttat 240

<310> 19835
 <311> 336
 <312> DNA
 <313> Glycine max

<400> 19835
 agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ctttttgaaa gtaacaaaca gaaggccagt ctgttgcaag ttgctgctg 120
 aacatcacat tccacctaa gaaaacacaa ggtggattgc atcaggggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagt caaagtatgg actaaaactgc tttcaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa aggggaatttt ccttccgggc ttggagtctt 300
 cccaatttaa ggcagaacc atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgtc tctctgagt tcaacc 386

<310> 19836
 <311> 365
 <312> DNA
 <313> Glycine max

<400> 19836
 agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaatgttga 60
 attttggccc ccactctctt ctgggttgta aggtttctgc agagagatcc actgttagtc 120
 tgatgggttt ccttttggg gtaacccaac cttctctatc ggttgcgctt aatatttttt 180
 ccttcatttc aacottggty aatctgatga ttatgtgtct tggggttgc cttctcaagg 240
 agtatctttg tggcattctc tgaatttctt gaatttgaat gttggcctgt gttgctaggt 300
 tggggaattt cctctggata atatctgaa gactgttttc cagcttgatt ccattctccc 360

tgtda

365

<210> 19837

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 19837

aggtttcctg aggtttcctg aggtttcctg aggtttcctg aggtttcctg
gtgtcccttc ctccatactac ggggaggtga gccaacagct ctgatgtata cattccttta 120
tgactatgca aaaggtagaa aggatttggg gccaaaatat tcttgcccttg gaetggatng 180
gacatctttta tttccttgag tggctcgata tttattagaa ggagattgct atctaactgg 240
accaattttt tatacctttt gattcttagg gctgttgatt ggatagaagg gctgctcttc 300
ctgctggcta ctcttggcgc atgctccata atgcaacgat tcaaacgct tccaagcgaa 360
ctatatggcc tgctaatacc aatgctctct atgcagtagg ctat 404

<210> 19838

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19838

agctttgctg gtcttacctt atctcctttt ggtccataag gtcccagaag gcttgnngaaa 60
cccctttctc ctttcaatcc cgataaaacca gtagagccag tgaatccttg aggacctgtt 120
gggccttgaa ttccaattgg tccaggtcgt ccctaaggtg gacagaagga gtgcaattag 180
tcaatagagg acttagcatt aatacttctc attttcccac gccaaaagag cactgtcata 240
acttcactga ataatttttg ctaagagatc tgtgagggac gccaaagtcc cagacacgga 300
tcagaaaagg ctatttttagg gattgctaag cttattttga tagaacacat tttataagca 360
catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19839

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19839

agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
 agatattta aataatttt aacaattatg cagacatttt ttaattttta aatttttttt 120
 ttt 180
 ttt 240
 ttt 300
 ttt 360
 tagaagtttt attcagagga atagtaacaa ag 392

<210> 19840
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 19840
 agcttttctct ctggttgctc tgctaagggt tccatgtgct agaaagaaa agaaagagatt 60
 gaattctcca ttccagtgtc tgcattgtgat gagtatttat cctcccttag atattaagtt 120
 aacaatccca atggagaaga tgtgcgtaaa tgaatcaaaa acttggtatc caaatttcac 180
 gaagatccaa tgggttaaaaa gtctcagatt gtagttttac taaaacagat ttgggtatat 240
 ggggaaaaaa gaaaagctac gacacggagg gaattttctc cagctccgac attgtttctc 300
 atattgcaac gatgggaatc tttggaaaatg agttccagac ttggtgctca catttcacga 360
 cgatctaacg gtttaacgagt ttatgatcgt cattttctga gacagagttc agtgtatgcg 420
 cgaaaaagat aggtgtcttg gagagga 447

<210> 19841
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19841
 agctttttggg tctcgtcag tttttggcta ttcaattttt tttcttctga tgcctctgtg 60
 caggtaagaa atgtgtatc ctctctctact gtgaatctgc ctgttctcag ttatttctat 120
 agacttaagt attgagcct cagaggatag agggaaaatc ttccctctca tatagaaggg 180

aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
 atccataatt tataaacaata ttttgaaaat taaaagagag cagtagaata agcaaaacag 300
 ttaacaaatt atagtttttc atactatga atggaataa tttatataa tatatatatc 360
 tttttttt tttttttt tttttttt

<210> 19842
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 19842

tetgactcat gacctcagct atcctaagaa ggggtgaatt aatttccccc taaccacccc 60
 ttgacccccct tctaaatgat acgtcccaaa tgtagaagta taagcaacaa tcaattcaat 120
 aatgttcttt atacatgoga gacaaaatcg actgccataa tataaatgag attaggggaag 180
 agagaaatgc taactcactt tatactatct aggacacttc cctgacctac gtgcaattcc 240
 tcagcaaccc acttgaaatt ttccactctc tttgcaagaa tacttttaca cagtctgaac 300
 cacatagggg caaccacccc attgtgtcca ggaatactta ccacttaaga gacctccat 360
 cccttaatca atctctttga ataa 384

<210> 19843
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19843

agcttgacat atttaacata cttaggaaat ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ccttttgaaa gtaacaaaca gaaggccagt ctgttgcaag tttgctgctg 120
 aacatcacat tccacccata gaaaacacaa ggtggattgc atcgagggtg gataccctac 180
 cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaaactgc ttccaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa aggggaatttt ccttccgggc ttggagtcct 300
 cccaatttaa ggcagaaccc atccattcca attctgcag tttaaaactt tctctactta 360
 tttagttgtc tctctgagt tcaacc 386

<210> 19844
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 19844

gaggaagacg cactctggcg cacattatat cgagacgcta gcaattgcac aaag 294

<210> 19845
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19845

agcttagtct ggctggatat gaaattctgg gttgaaaatt cttttcttta agaatgttga 60
 attttggccc ccactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
 tgatgggttt ccttttgtgg gtaacccaac ctttctatct ggctgcgctt aatatttttt 180
 ccttcatttc aaccttgggtg aatctgatga ttatgtgtct tggggttgct cttctcaagg 240
 agtatctttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300
 tggggaattt ctcttgata atatcctgaa gagtgttttc cagcttgatt ccattctccc 360
 tatca 365

<210> 19846
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 19846

atcttaagtc actgggctgc agcttaacca ggggagatgg accatttcaa gttcttgaact 60
 gaatcaatga ccatgcttac acagttgagc tgcctggaga gtataatgtc atctccacct 120
 tggatgtctc tgatctatct ctattctatg caaatggaca atcttatgg aagatcaact 180
 cttctaaaga gggagagaat gatgatgaca tgaccaatag caatggacaa gatccacttg 240

aaagacttgg aggaacttatt gatgaggaca tgaccaagat ctatggcaat gatccacttg 300
 taagacttgg aggaacttatt acatcgtcta tagcaaggaa agccaatgaa gctcttcaac 360
 aatcgaatga cctact 376

<210> 19847
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 19847

gctgtaagac attatgcaac attgttttgg atattcaaca tgaacatccc atttcttgac 60
 gttggtacct tggcgattag attgcttctc ctatctctga tggaaagaat ggaatcttct 120
 attgaatata atagccttta ttgagtaatt gaccocaaat cataatatta ttcttcatat 180
 ttgggaacata gttagacattt gatatgaatt catgtcttcc atctttcaaa taaattaaga 240
 tcttacatta tctttttaca agaactcttag aattatcacc aaatgagaca ttgtcactta 300
 ctgattcacc aagatccacg aacatgcttc tttctacac atatgggttg ttgcaccagt 360
 gtcaacgtat catgtgttgt cttggtacc ttcattacat gcacatgcta gaagcaatat 420
 ttcaaacttc ttggcttttt gctccacat 449

<210> 19848
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19848

agctttgctg gtcttacctt atctcctttt ggtccataag gtcccagaag gcttngaaa 60
 cccctttctc ctttcaatcc cyataaaaca gttagagccag tgaatccttg aggaactggt 120
 gggccttgaa ttccaattgg tccaggttgt ccttaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acttagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
 acttcactga ataatttttg ctaagagatc tgtgaggcac gccaaagtta cagacacgga 300
 tcagaaaagg ctatttttag gattgctaag cttatttggg tagaacacat ttatataagca 360
 catttaafaa gattcatgtg caccaagatc cttcaacttt 400

<210> 19849
 <211> 392
 <212> DNA
 <213> Glycine max

agcttctgctt gcttctcttctt gcttctcttctt gcttctcttctt gcttctcttctt 10
 gcttctcttctt gcttctcttctt gcttctcttctt gcttctcttctt gcttctcttctt 20
 acatactgca gaatgcatac gactctctta ctggcagaat tgatcaagca gaagaatcag 30
 tgaacttata aacaggetat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 40
 aaagaatgaa gcctgaactac aagatctaga aaatagtctt aacagggcaa atctaggagt 50
 tattggcctt aaaattattg gccttatttg cctgatgagg tagagagaga gagacggngg 60
 tagaaagttt attcagagga atagtaacaa ag 392

<210> 19850
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 19850
 agctattgat aatattctac gtgtcataag agagtcaaaa gtcttaatta caattcctat 60
 cacatacctg tccaaagcac cacaatgttg tctttgggta aactcttgaa atttgaaaat 120
 aaatatttta taacaaatgc taacttgtgc tctaagaaca ttagttgagg aatttaaagt 180
 agaaattatt ttactagaa aacgaaaaat tatgttccca ttatcttatt acgcttttat 240
 gatttaggca ataaatattt ttctctttta attctttaat caatgtctta agtacattac 300
 ttatcaatac ctatattcta tttatgctct agacagtatt cattgtattc gacaaatact 360
 ttttttaatt ttaaataaaa tgtgtgggga tggttagttt 399

<210> 19851
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 19851
 agcttcaacc aattaacatt gtttgaatga caactgttgg agttgacaa caatcacata 60

gtttgtccac catggtatgc tttatgttcc tattgggttat agctctggta tgctttatgt 120
 tectattggg tatagctttg gtgctagaat gttcaatttg gagtcacaaa gaggaggatc 180
 tttatatttt tttttttttt tttcttggaa tttttttttt tttttttttt tttttttttt 240
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
 atcaaaacttc aagtcagttg tgcataaaaa 480

<310> 19852
 <311> 386
 <312> DNA
 <313> Glycine max

<400> 19852
 agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ccttttgaaa gtaacaaaaca gaaggecagt ctggtgcaag ttgctgctg 120
 aacatcacat tccacctaa gaaaacacaa ggtggattgc atcgagggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagtg caaagtatgg actaaactgc tttcaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaatttt cttccccggc ttggagtcct 300
 cccaatttaa ggcagaacc atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgtc tctctgagt tcaacc 386

<310> 19853
 <311> 365
 <312> DNA
 <313> Glycine max

<400> 19853
 agcttagtct ggttggatat gaaattcttg gttgaaaatt cttttcttta agaattgtga 60
 attttggccc ccactctctt ctggtttgta aggtttctgc agagagatcc actgttagtc 120
 tgatgggttt ccttttggg gtaacccaa cttctctatct ggttgcgctt aatatttttt 180
 ctttcatttc aaccttggg aatctgata ttatgtgtct tggggtgtct ctctcaagg 240
 agtatcttgg tggcattctc tttatttctt gaatttgaat gttggcctgt gttgctaggt 300

tggggaattt ctcttgata atatctgaa gagggttttc cagcttgatt ccattctccc 360
 tggca 365

<212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19854

agctttgctg gtcttacctt atctctttt ggtccataag gtcccagaag gctgngaaa 60
 cctctttctc ctctcaatcc cgataaacca gtagagccag tgaatccttg aggaacctgtt 120
 gggccttgaa ttccaattgg tccaggtcgt cctaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acctagcatt aatacttctc attttcccac gcacaaagag cactgtcata 240
 acttcaactga ataatttttg ctaagagatc tgtgaggcac gccaaagttc cagacacgga 300
 tcagaaaagg ctattttagg gattgctaag cttatttggg tagaacacat tttataagca 360
 catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19855
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19855

agcttgatga aattcaggat agcacagaaa caattcagaa tactgtcaga caaatttaca 60
 aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acataactgca gaatgcacga gaggctctta ctggcagaat tgatcaagca gaagaatcag 180
 tgaacttata aacaggctat ttgaaaatac acagaggaga caaaaggaag aaagaataaa 240
 aaagaatgaa gcatgactac aagatctaga aaatagtctt aacagggcaa atctaggagt 300
 tatttgcctt aaaattattg gccttatttg cctgatgagg tagagagaga gagacgnggg 360
 tagaaaagttt attcagagga atagtaacaa ag 392

<210> 19856
 <211> 438

caggtaagaa atgtgtatac ctcttctact gtgaatctgc ctgttgtagc tttatttcat 120
 agacttagtt attgagccct cagaggatag agggaaagtc ttcctctca tatagaaggg 180
 aaaaacatac tttgagctg ggaatata ttataatag attctctaa caatcttat 240

<400> 19859

<210> 19859
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19859

agcttgacat attaacata cttaggaact ttttttgcg ggtgggaatt ctctaattgt 60
 atcatgtggg ctttttgaaa gtaacaaaca gaaggccagt ctgttgcaag ttgctgctg 120
 aacatcacat tccaccctaa gaaaacacaa ggtggattgc atcaggggtg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagt caaagtatgg actaaactgc ttccaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaaatctt ccttccggc ttggagtctt 300
 cccaatttaa ggcagaacct atccactcca atttctgcag tttaaaactt tctctactta 360
 tttagttgct tctctgagt tcaacc 386

<210> 19860
 <211> 274
 <212> DNA
 <213> Glycine max

<400> 19860

agctcataat atatogatac gctcgaaatt aaacatogaa tactctctgg aaattcaaatt 60
 ggtcataact ttctacagg atgtccgact gcagctaate acatategat tctctcacia 120
 ctgaacaacg gaagctcttg agaaattcaa acgggtctat ctttacgcac gcatgttaga 180
 ttaaggcgca tcatatataa cgaagctoga atttgaacaa cggtagctct cgagaaactc 240
 agatggacat caattttcac actgatgtcc aatt 274

<210> 19861
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19861

gagcgggttt ggggtgtgg ggaacggcaat ggggtgatt ggggtggtt ggggtggtt 240
 gtttatttc aacgttgggtg aatctgatga ttatgtgtct tgggggttgc ttcttcaagg 246
 agtaactttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300
 tggggaattt cttctggata atatctgaa gagtgttttc cagcttgatt ccattctccc 360
 tgcga 365

<210> 19362
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19362

agctttgctg gtcttaacctt atctctttt ggtccataag gtcccagaag gcctgngaaa 60
 cccctttctc ctttcaatcc cgataaacca gtagagccag tgaatccttg aggacctgtt 120
 gggccttgaa ttccaattgg tccaggtcgt ccctaagggtg gacagaagga gtgcaattag 180
 tcaatagagg acctagcatt aatacttctc attttccac gcacaaagag cactgtcata 240
 acttcaactga ataatttttg ctaagagatc tgtgaggcac gccaaagtcc cagacacgga 300
 tcagaaaagg ctatttttag gattgctaag cttatttgga tagaacacat ttataagca 360
 catttaataa gattcatgtg caccaagatc cttcaacttt 400

<210> 19863
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19863

agcttgatga aattcagga agcacagaaa caattcagaa tactgtcaga caaatttaca 60

aagagattta attaatTTTT aacaattatg cagacatttt ttaaattgaaa aacttagttg 120
 acatactgca gaatgcacca gagtctctta ctggcagaat tgatcaagca gaagaatcag 180
 taaacttata aacacacata tttaaaatag aacacacata taaaaggaaa aacacacata 240
 aacacacata tttaaaatag aacacacata taaaaggaaa aacacacata 300

taaaaagttt attagagga ataatatata aa 360

<210> 19364
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19364
 agcttttggg tctcgtgag tttttgcta ttcacttttc tttcttgtga tgcctctgtg 60
 caggtaagaa atgtgtatac ctctctact gtgaatctgc ctgttgtcag tttatttcat 120
 agaacttagtt attgagcct cagaggatag agggaaaagtc ttccctctca tatagaaggg 180
 aaaaggtagc tccgagagtg ggagaatata tttataatac atttctctaa gagtacttat 240
 atccataatt tataaacaaa ttttgaaaat taaaagagag cagtagaata agcaaacacag 300
 ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tatatatatc 360
 tgcatttat atgaacagaa tca 383

<210> 19365
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 19365
 agcttgacat atttaacata cttaggaact ttttttgtgc ggtgggaatt ctctaattgt 60
 atcatgtggg ctttttgaaa gtaacaaaac gaaggccagt ctgttgcaag tttgctgctg 120
 aacatcacat tccacctaa gaaaacacaa ggtggattgc atcgaggttg gataccttac 180
 cttagcacag aaggaaaaag tatgtcagt caaagtatgg actaaaactgc tttcaggaaa 240
 aaagttgtaa aaattgatac aggttggaaa agggaaatttt ccttcccttc ttggagcct 300
 cccaatttaa ggcagaacc atccactcca atttctgcag tttaaaactt ctctactta 360

tttagttgtc tctctgtgagt tcaacc

386

<210> 19866

<211> 314

<212> DNA

<213> Glycine max

atcttcaatt tctcttgatc cttcttgatc atcttcaatt tctcttgatc cttcttgatc

cgtacaata gtgaagcata agaggagaca acagagagaa ggacagagag tcaacgacct 120

agatttgcct cttcgtctct ctcgcgggtg gtgacagcaa cctctctgag cttgacgatg 180

ggagcgacct gtgctccggt gttctctgag acgacgacgg cgggtgcctc cttctcttat 240

ggagctcgg gatcggcgct cgacatcttg tggaaaggaga gatggacaca gagagataga 300

gagagagatc cagt 314

<210> 19867

<211> 365

<212> DNA

<213> Glycine max

<400> 19867

agcttagtct ggctggatat gaaattctgg gtgaaaatt cttttcttta agaattgtga 60

atcttgccc ccaactctct ctggtttgta aggtttctgc agagagatcc actgtagtc 120

tgatgggttt ccttttgtgg gtaacccaac cttctatct ggctgcgctt aatatttttt 180

ccttcatttc aaccttggtg aatctgatga ttatgtgtct tggggttgct cttctcaagg 240

agtatctttg tggcattctc tgtatttctt gaatttgaat gttggcctgt gttgctaggt 300

tggggaattt ctcctggata atactctgaa gagtgttttc cagcttgatt caattctccc 360

tgtca 365

<210> 19868

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n. locations

<400> 19868

[illegible]

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<210>      19870
<211>      383
<212>      DNA
<213>      Glycine max

<400>      19870

agctttttggg  tctcgatgag  tttttggcta  ttcaattttt  tttctttgtg  tgccctctgt  60
caggtaagaa  atgtgtatac  ctcttctact  gtgaatctgc  ctgttgcag  tttatttcat  120
agacttagtt  attgagacct  cagaggatag  agggaaaagt  tccctctca  tatagaaggg  180
aaaaggtagc  tccgagagtg  ggagaatata  ttataatac  attctcttaa  gactacttat  240
atccataatt  ttataaaata  ttttgaaaat  taaaagagaa  cactagaata  agcaaaaacg  300

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ttgaacaatt atatgtttgc atacctatga aatgcaaata tataaagaaa tataratato 360
 tgaatttat atgaacagaa tca 333

<210> 19871

<211>

<212> DNA

<213> Glycine max

<400> 19871

ttgttgacat tatagcagna acctggaatt ttgtgggta tagctcaact tcaaaggcct 60
 adagaateta cctaccacag agcaacanag taatcgtcag cagggatgtc aaatttctgg 120
 agtcagatag ttgggaactgg aaaaatgata agaggctctga gtttcaggag gagaatgaag 180
 atgttgatga agaaccctac agaggaacca gatcacttcc agacatctac canagggtga 240
 atgttgctgt aatggagcct ganggatatg aagaagctac agctgatcag aaatggagaa 300
 atgcaatgaa agaggagcct ataatgatng aaaaaataa aacatgggag ctggtggaca 360

<210> 19872

<211> 332

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19872

agcttgctcat gttctgtgca ggtgttgcta ctggtggagg cacttgaatt tggttgccag 60
 acctcaaggt gatggcactc acattttttg ggttctgcac agtttctgaa agcaatttgt 120
 cataattttg ggactgagct tggttcaact gactagccat ctgcccctac ttatttgta 180
 gactctgaat ggaggtctct gtctcttctg gaaattgcat attctggatg gtcatttgcc 240
 tcacthaactc ttctaaagaa ggttgaggag gacccctagt tgcttggttg ctntgttatg 300
 actgctgctg ttgtattgga ggaggaacat at 332

<210> 19873

<211> 323

<212> DNA

<213> Glycine max

<400> 19873

agcttctgtt ttcaatttca agcgtctcga tattttacgg ggctctatcc gacatccgag 60

ttaaaagtaa tggctcgttg ataattctaa gagcttccct ttccaattac gaaaatctcg 120

atataatcgg ggcacaaatc ggcacaaatc ggcacaaatc atataatcgg ggcacaaatc 180

atataatcgg ggcacaaatc ggcacaaatc ggcacaaatc atataatcgg ggcacaaatc 240

atataatcgg ggcacaaatc ggcacaaatc ggcacaaatc atataatcgg ggcacaaatc 300

atataatcgg ggcacaaatc ggcacaaatc ggcacaaatc atataatcgg ggcacaaatc 360

<210> 19874

<211> 383

<212> DNA

<213> Glycine max

<400> 19874

agctttatta ctattctttt ctctctatta atatatcttg tgttggtaaa tccacacatt 60

taattaaggt actaagttag tcaattaatt aagctcagct taacatctag cagtatatat 120

aaacatgcac gyaaggaag gatagtttaa atatatatat atattcttgt ggtatttcag 180

taacctacat aaattatcga ctctgttggt taattaataa actctacgtc accagtatgt 240

agaatatata taaaagatat aaacaatgag caaacagcac cagtgggtcta gtggtagaat 300

agtaacctgc caccgtacag acccggttc gattcccggc tgggtgcatat tgtttctaac 360

tttttatcta tgcagttcca tca 383

<210> 19875

<211> 209

<212> DNA

<213> Glycine max

<400> 19875

tatagaaact cagctcatgc tacaacatt tataatagat ctctcaaca gccaaccct 60

ttttcttcac aattattatg aactctccaa ccattggatc catteraggt tggaggaaac 120

atccaaatct gagatggacg agtccctcac aacaacaaca gctgtcctt cctttctaga 180

atgctgctgg tccaagcaag ccataatgt 209

<210> 19876

<211> 301

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<212>      DNA
<213>      Glycine max
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agtgggagaaac agcgaagtgtta ctgaattctg cacatctgaa ggcatacttc atgagttctc
 300
 - 301

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&S10>      19877
&S11>      309
&S12>      DNA
&S13>      Glycine max
.
&S00>      19877

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agcttcattc	tttatgagac	gaaccattcc	aagtgttggg	gaagatcaac	gacaatgcct	60
acaagattga	cttgcctagt	gagtataatg	taagtgccac	tttcaatgtg	tctgatctat	120
ctctctttga	tgcagatgga	ggagccttgg	atttgaggac	aaatcctttt	caacgagggg	180
gtgatgatga	cataaccaat	ggcaaggacc	atgaagcact	tgaaggctcc	atgaccagag	240
gcagacttaa	acaagcccaa	cacatcatag	agacaaagct	ggtcatttgt	atagctgtca	300
ttgatgatg						309

<110>	19378
<111>	264
<112>	DNA
<113>	Glycine max

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<121>      unsure at all n locations
<400>      19378

```

tgggttaaaa	cattccaaag	aggettcocat	tgggaaatga	caatgccaca	cgaggattgc	60
gaaacttcac	tccttaagaa	gtattttgagt	ggaaccatgt	cttttgrctg	aaactgacaa	120
tggagacgag	atctaagtca	gagaataacc	tcagaatcat	tgccaataar	gacaatgtca	180
taaacatada	caagaaccta	catacaacda	ctadalgdag	aatquatgaa	aaacaccdag	240

tgattagtct cacaatgggt catg

264

<210> 19379

<211> 350

<212>

<213>

aaatgggac atctgtgtga gaagttatga ccatctggat tttttata' ctctgggtgg 50

aaaaatncca acctgtgtga gttttattcc acccgattcg gacatctgtg tgaaaagtca 100

ttatcatttg aatntctega gagtttcoga tgtttaattt cgagcgtatc gatatattat 150

aacctgaaa tggacctcag tctgaaagtt atgaccattt gaatttgaag agagctttcg 200

ttgttcaatt tccaatatca ctgtatgtga tggcctcaa tggacattcg agttanatgt 250

tatgaccatt tgaattctc aagagcttcc gttgttcaat tctgagcgtc 300

<210> 19380

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19380

agctngcttc ttttggtgca tagaatgcag gcaaaaaaaaa aatagtaagt gtcatgaatc 60

tctgacataa gcttcaacca attaacattg tttgtatgac aactgttgta gttggacagc 120

aatcacacag tttgtccacc atgggtatgt ntatgttctt attgggtata gttttagtat 180

gctttatggt cctattgggt atagcttttg tgettggaatg ttcaatttgg agtccacaaa 240

aggaggaact ccatatgggt ttggagttct tgettgagat ggtacaagac aagcaagtga 300

aatggagctg gagcttgcag agtatcatgg caagtatata tgaaat 346

<210> 19381

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19381

agcttgccttc ctttccact ggaatnncct ctatcaaagc cactctgatt actttttcct 60
 cctctgggag cataattcta agggaagcca ttcttcctaa aacatctatc aactgtatga 120
 ttgtctttgc cacagtaagt acatgaaaat cctgaattcg atgaggttgt gcttgcctga 180

 ctttcataa cactaacaag agcatcacat gtacatttta gattgcattg a 240

<210> 19882
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 19882
 accttgttta tattactaga agactatgag atgtttccta atagtgcatt agatgatgat 60
 ggttaaattgg ttcacttagc actaatggga gaagcagaac ctgtcacttt cccagaagca 120
 attaaaaagg aagtatggtt agaagctatg agagaagagt tgaaagccat atagaggaac 180
 aagacatgga agttggctag tctaccaaat ggaaaaacag ctataaatgt cacatggggt 240
 ttcaagaaca agctcacacc agataggagt attgctaaac acaaagccag actagtggcg 300
 aagggctgta tgcagaaaga aagctatgat taaaagaag tctttgcact ggt 353

<210> 19883
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19883

ataagtatat tcaactaggag aacatcgtag tggaaggaaa ttgtactgat gtgattcaaa 60
 agatccttcc acccaagcat aaagacctg gaagtgtaac tattccttgt ttaattggag 120
 aagtcacagt gggaaaggct cttattaaat taggagccaa aattaattta atgccactct 180
 ccatgtgnag aaaggtggga gagttggaga tcatgccac tangatgact ntacaactg 240
 ctaaccactc cattaccaga ccataaggag taattgaaga tctgttggtc aaagtgaac 300
 attttatctt cctggcagac ttgttggtta tggata 336

<210> 19884
 <211> 410
 <212> DNA
 <213> Glycine max

atggtttatg ggttttgaat ttttttgaag ttttttgaag ttttttgaat ttttttgaat
 tatgtttggt gactttcaaaa agcaacagag agattttcaaa agacaatt ta attgttcaaat 120
 gctctctaaa aaactatagg tcaaacactt tcaaatcaat tgagtattct tgtaagatct 180
 tcaatttgta ttatcatctc taaaagagag aaattcttct gtacattcta aatactgtgt 240
 tgtgatcaag agattgttta tctctagact tgtgagaatc ctgaacacaa tggagaagaa 300
 tctcaaggty tgttcagaag ttgcaagag tgtacaaaga tagcggaaaa tctcaagtgc 360
 gttgcttgat gacaggacat agacaagaga agtgytcgat caagataaaa 410

<210> 19885
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19885

taagaggtyc aaattaaata ccatttgata ctgagacaat gtgacaagan atgtaataaa 60
 taagacccaa gtgtatacga taaaattgtg acagactcca catactacac atgtaaaaca 120
 ttaacaagcc atcttgattc ctaaacacat gatatgcac ttcattttca aagccacgga 180
 ctgagggtcca tcatctacac caagcttctc aaggctctca taaaaagcat cgggattttt 240
 ctccacacaac tcttccacct tattttattg ctgttcactt atttggcgag cctttaactg 300
 cttcttaagg tataagaact gtatattctc tatgtgataa cctaaaaggc actttcttga 360
 agcatcatat gatatgccaa aatcatcaca ttctaataag cattantgta agttaaatac 420
 tatttcttga agtttcaatt actttt 446

<210> 19886
 <211> 340
 <212> DNA
 <213> Glycine max

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<223>      unsure at all n locations
<400>      19886
```

[illegible]

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<B10>      19387
<B11>      310
<B12>      DNA
<B13>      Glycine max
```

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323>      unsure at all n locations
400>      19387

```

ctctcgatga ttgattgagt cccgtaatat aacgagacgc tcgaaatnga atgtngaagc	60
tctgagccaa ttcaaacgac aataactttt tactcggatg tctgattgag ttccgtcata	120
tatcgagacg ctcgaaattg aatggtgaac ctctgagcca attcanacga cnataactnt	180
ttactcggat gtctgagtga gtcccataat atatcgagac gtcgaaatt gaatgttgaa	240
ctttgagcc aattcaaacg acaataactt ttactcgga tgtctattc agtgacgtaa	300
tatatcgga	310

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>210>      19888
>211>      362
>212>      DNA
>213>      Glycine max

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<223>      unsure at all n locations
<400>      19838

```

agcttttatac attctacttt nttttacttc ttacaaataa aaaaatatct ttcttatttt 60
 gaagtttcgaa aagtttagtat aaattattac cgtttaaagt aatcaaatta aatatatatt 120
 aatcacagttt atccaaaaat taaraagatg ttacaaatta ttttcacaa accattggtc 180
 catatattct atttttataa tataatgaat ataattttat ttccaaaaaa atttaaaatca 240

agtatatttaa agaattttaa aataaatata tatatatata tatatatata ttantttaat 300
 tacatatatg tatagatatn aaatatttta ataaagtgc taaattataa tatacatata 360
 tt 362

<210>
 <211>
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19889

gattgtgtca agattcaatg tgacagtcaa agcgccattt ttttagttta tcaccaaagt 60
 taccatgaga ggacagagca catagatgag aaactacact tcatcagaga tgtgattgaa 120
 totgagaagg tgaaggatga taaggtttta acagaagata acccggtga tatgtttaca 180
 aaatccctct ctagtgtcaa gtccaagcac tgcctggaat tgataaattt tgaggatgac 240
 taaagcacat tggtagaagt gcacccctga atcgcaagat aagcaacttg tgatttggag 300
 tcaaagtgga gatttgtggt gtgtgactca naatcacaaa tggcacaagt gggaagactt 360
 taagaagtgc taccataact aaattcagtt atgataactg aatctgtttt ggcaccanaa 420
 catagctaga atgagtgtgt gtgatatata tatatatata tat 463

<210> 19890
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19890

actatannaa actcacgctc tgagacaaat canacgacaa caactntnta ctggatatt 60
 tttattgattc ccgttatata acgagacgct cgagagtga tgtttaagct ntgatccaat 120
 tcanatgaca ataaattttt tctcagatgt ctgattgagt ccaataatat aacgagaacg 180
 tcgaaattga atgttgaagc tctaaagcaa ttcaaaacgac aataactttt tactaggatg 240
 tctgattgag tccgtaaca tctcagacg ctcgaaattg aatggtgaag ctctgagaca 300
 attgaaacga caacaacttt ttaactggat ctctgattga agtccgtaac atatcaagat 360
 gctcgaaaatn gaatgtggaa tctctgagcc aattcacacg acaaatagct ttaactcgga 420

tgtctgattg agtcgcgtac atatcgagac gctcgaaatt gaaggtagag ctct

474

<210> 19891

<211> 324

<212> DNA

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<210> 19892

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19892

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aagggagaga gaagggttgc ttccaaccg gagattgngt ttgggtgcac atgagaaaag 120
aaaggtntcc ggaacanagg aaatcaaagc ttcaaccaag gggagatgga ccatttcaag 180
tgcctgaaag aatcaatgac aatgcttaca aagttgagct gcccctgag tataatgtta 240
gttccacctt caatgtctct gatatatctc tttttgatg 279

<210> 19893

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19893

acgacaataa cgtctactc ggatggttaa ttgagtcctc taataatctc adacgtctga 60
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attgagtcctc ataatatatc gagacgctcg aaattgaatg ttgaacctct gatccaattc 180
 caacgacaat cactttttac tccgatgtcc gattcagttg ttgaatatat cgggacgctc 240
 gacattcaat gttgaacttc tgaagcaatt caaacgacaa taactttta ttgagatga 300
 tttgaagaaa taaatttat tgaatttc attatagaat gattatc 400

<210> 19894
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19894

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 atatatcgag accgtcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
 gttttactcg gatgtctgat tgagtcccgat catataccga gaagctcgaa attgaatggt 180
 gaagctccga gccaatctaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240
 taatatatcg agaccctcga aattgaatgt tgaagctctg agccaattca aacgataata 300
 aacttttact cggatgtctg atagagtcctc gtcatatatc gagacgctcg aaatcgaatg 360
 tt 362

<210> 19895
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19895

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 cctacaagct gagaggtact atccgagccc aagtactagc caacttcatt aatgaattcc 120
 atccccacc accatatttc aagtaggaat ggtggacgat gcattgtgtaa aactcttcca 180
 ataggcacgg gattggtggt ggggttattc tcgaaggagc atggtacaat ccttacattn 240
 tggattcaaa gccacatgca attaggccga atacdaagaa ctctttgcac gtttaaggtc 300
 ttccaaacag gttgatgtc aaaggtccg gtgtcgaagg gactccaaga tgcctgttga 360

gtatatcaac

370

<210> 19896

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19896

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ttctctctatt ttccagattgc ggatgccttt aacagcacct ttgtcaatga tttctcttcac 120
gcttctttaag tgcagatgtc caaatctttg atgcatatatt ctgaatttcac tttcttttggc 180
ggatagacat gtggaggagt agctgggttc ttggggtgtc cataagtaac aattgtcctt 240
tgatctgtctg ccttccttta gaatttcact cttctcattt gtcaccaagc attctgaact 300
tgtgaagttt acattgaacc cttcctcaca cagctgactg atgctgaccc aagttgcagt 360
cagtcctctc accagcagta ctttgttcag actangaagt ccatcatgaa ct 412

<210> 19897

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19897

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cttggttagac aagtggcctc agatatctta agaagggggg ttgaattaag atattacaaa 120
ctattttccc aattaaaatt ctactttgat tntaatgcaa gttcaaagtt cctttaaaga 180
ttaatttcta aatgatgatt caaaataacc aaactgaatg taaaagtaaa gcaacaataa 240
ataaaaagagt ttaagggaag agagagtgcg aactcagttt tatactgggt cggccacacc 300
cttgtgccta cgtccagtcg ccaagcaacc caettgagag ttccactaac ttgcanaaac 360
cctthacaag ttctgaacca cac 383

<210> 19898

<211> 439

<212> DNA

<213> Glycine max

<400> 19898

agttttctaat ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
tatactttaa taaggttttg tttaattaa ttatttcaaa cttttctcct aaatttttaa 120
tatactttaa taaggttttg tttaattaa ttatttcaaa cttttctcct aaatttttaa 180
tatactttaa taaggttttg tttaattaa ttatttcaaa cttttctcct aaatttttaa 240
tatactttaa taaggttttg tttaattaa ttatttcaaa cttttctcct aaatttttaa 300
ttccaagcaa cccgcttgag agttcacta acttgytaaat tcccttttaca agttctaaac 360
atacaacgac gaacctttct ttgtgttttag agattctgta caacaagaga ctccaggtct 420
tttaattcct tatagaatg 489

<210> 19899

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19899

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aattaagact ttattgtaaa atatataatt aaatcaattt cgttggttttg tttttttcat 180
cttcactaat atgctggaat tgtgattata tattacatct tcggttgtga aanaagtaaa 240
gaatagaatt actattacat tatataaggc gactaaatat aacatgtaca atagaaatac 300
aatttttggt gtacaatgta caacagaatt atatttttat tgtgcacgtt ttattagcaa 360
agaaatatat aaatctttca cttaaataaaa ttgagattat ctgttataca atagaatctt 420
ga 482

<210> 19900

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19900

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tggtaacttgg gaagattang ggtggcaatg taagccttgg ccggaacgagt tgggctagat 120
 gactcaaccc gctagcccat attgactcac ccgcctaac ccaccaacct agcgggacag 180
 gttggctagc cagccatcca tacatacata tacatatata tacaatatag ttttttghc 24
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt
 catttgggat aactttatag aataagatga 450

<210> 19901
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 19901

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 agtgaatagt caagaccatt tgaatttctg gagaacttgc atcgttgaat ttcgagcgtg 120
 tgcataaatt atgcgcctga atcggaacctc catgttaaca gttattgacc attggaattt 180
 ctcgagagct tccgttgtgc aatgtcgagc gtctcgatgt attgtgcgac tgaatcggac 240
 ctccgagtga aaagtatatga ccatttgaga tctcaagaa gttacgttgt tgaatatcga 300
 gcgtctcgat atattgtgcg cctgaatcgg acctccgagt gaatagttat gaccattaga 360
 atttc 365

<210> 19902
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 19902

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 aactcaaggt caaaataagc aactaatgac aagatatata aagagaatct ttcatagata 120
 caggagaaaa agtcttttgc tagtcgattc cttcttttgc agtaaatccc targcaacga 180
 gtcttgcctg gtatctctca atgttggcta atgaatcccc ttgggtctta aaaaccatc 240
 tacaaccaag ggccttggcc cta 263

<210> 19903
 <211> 402
 <212> DNA
 <213> Glycine max

19903 19903 19903 19903 19903 19903 19903 19903 19903 19903

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 ctctcttntga tgcagatgta gaatcagatt tgaggacaaa tcttctcdaa gagggagaga 180
 atgagagagga catgaccaag agcaaggcca aggatccact tgaaggactt ggaggaccta 240
 tgaacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgtgt tccatactat 300
 tngaatacaa gcccaagttt caaggagaat agtccaaggt tgtgagttgt atcatggccc 360
 anagtgagga tgacttatgt acaccactct tgtctcaatt tt 402

<210> 19904
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19904

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 cattgtcacc attttttttc ggtcattgag gtgccacttg agctgccagg tctctccacc 120
 ttggggtgta ttctttgaaa gatctgtgcc cctttttgca catgttctgt tgttgcaccc 180
 tatccagaac catatcaaaa ttgtactgat actgcctaac gaaggcaacc attaggtcct 240
 tccaagaatg gactcgggaa ggttccaagt tagtgtaacca ggtaacaact accccagtaa 300
 gacttctttt ggaaggaatg tatcaacaat ttctcatctt ttgcgtat 348

<210> 19905
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19905

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ctcgagcget ctctttgntc aatatacagt gtctcgatat attatg 406

<210> 19909

<211>

<212>

<213>

<223> unsure at all n locations

<400> 19909

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tcaacgcgtt ccaactcatt caatacagga aatttaccac cagaacatct aactctaat 120
atcttatata caagatgctg cgaccttcta aaattcggag cccatgaatg tatgtcggcc 180
acattcaagt ctgataaatt ctttgaacag ccagagaatg ctgctgtaaa caccctgcaa 240
ataaatacag tctacacatt aactccatac atagcttgca tcaaaaacct 290

<210> 19909

<211> 400

<212> DNA

<213> Glycine max

<400> 19909

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gtctataaac gcaatatcca ccactccttc attgggtctgc caggtattgt gattacagca 120
ggggagaata atcacattct cctctgacga cactttctga tactcatcac tctttctgtt 180
tgtrtatgtc gaggggaatgt cgacgatgaa ttccttgact agactttcat atcaatctcc 240
caacttggtg acagtattca acagtcacgc aaccttgatg aggacatgat ctctctgcga 300
tccacagcat ctcttaccag agctctgtgt aatgcaagtc tcgcgtgata taaaaatta 360
cacctttcaa catctgcaat ggagtggaaat gaaatgttgt 400

<210> 19910

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19910

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accaaagagt ttttactctc tggtaatcga ttaaccagatt attgtaatcg attaccagta	180
cttcttctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt	240
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cttcttctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt gcttctctctt	420
atagttttta cttttttttta aatgg	445

agccttacat ctaattcaat ggcgcctga atcccgaggg tgcattcttc gtactcgccc	60
atattgttgg tacaatcaaa acctatctta gcggtgaaag gaatacaatg atcatccggt	120
gatacaagga ctgcccctac tccgtggccc aaagcattaa acgccccatc gaagcacaca	180
atccatttgt gtatgtcttc gtgcgtctgc ttgtcttcaa acagggccat gatattctca	240
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gctaattgcac ttgcctttac cggcttttgg gtgacgtaca cgatatcgaa ttcagataat	360
actacctgcc acctc	375

agattctttg attgtctaa gttggacctt ctanggcagg ggggcattct ccactatnt 60
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ygagccccat gaatgtcacc gccaaagcgt gttcattcat cctccaccca aagagtatgg 240
 agctaagett ctgattggc taagtgtgga cctctatgg caatcccca ttctccactt 300
 tgttcggaga cccatgaatg tcattgcca tcactgttca tgggtccctcc accttcagat 360

<210> 19913
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 19913
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 tttctggctt cagcaagagt catgtctcca agggctccac cactggcaga atctatcata 180
 cttctctcca tttactgag tcttcataa aaatgttga caagaagctg ttctgaaatc 240
 tcatggtgat ggcaactggc acatagcttc ttaaategat cccagtaact atacaggtc 300
 tctccactga gttgtctaac acctgacata tcactcctga tggctgagge cctggaagca 360
 aggaacaaat gttctaagaa tactct 386

<210> 19914
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 19914
 agcttgagtt gtcttatgct cttttaagg ctctgctcga cttacataaa agtctgactt 60
 acgagcctat ttaaaagctt gcttaaagac gtcttttatt aattaattat tttaaaacct 120
 agtgaaatac taactaaaaa aagaaactta ttaaatttcg tatgaataat gtacaaatct 180
 aaaaataatt gataaacaaa atttatattga attcaagtcg ttaaagcaca aagtctataa 240
 aaaaaataaa aatagcataa tattaataaa tgtatggatt agagatgatt tacactaata 300
 tagcctaaca aaaattatta ttagttaaat taacaatttc taatccacat tttttaatat 360
 ataattatat tatatatgtt taaaaaaaat atatgcacaa taatgtcacc ttagtctact 420
 caagccatat cttatataat a 441

<210> 19915
 <211> 243
 <212> DNA
 <213> Glycine max

aaatctta ttttttttat tttttttttt gttttttttt tttttttttt tttttttttt
 aatatttaccg ggacttcaatc agacatccga gtaaaaagtt ttgttcgtta gaacttgctc 180
 agagcttcca taatcaatat ccagccgttc catatattac tggactcaat cctacaaccg 240
 tgt 243

<210> 19916
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19916

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 ccacaactct aataaatggg agagaaatgt tcctctagac catacaagtc cctaataatta 120
 tcagatccta caatttgagc tcctatggag caaaacaatg tgtgtctcct agagagggca 180
 tcagctacca catttgtttt tccctttttg tatttgataa catatggaaa ttgctctatg 240
 tactctacc cttntgcatg cctcttggtt aacttgcttt gccctctaatt gtacttaagt 300
 gatgatgat cactatgaat gacaaattcc ttggaaacaa ggtaatgttc ccaagtttgg 360
 agggctctta ttaaggcata aagctc 386

<210> 19917
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19917

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 cacatgggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctttaaaagt 120

gaagatgtcc agattgcaac tattggctac aaaattcgaa aatctgaaga tgaaggagga 130
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gtttaaagagt atgacagatg aaatcttgtt gagaagaatg ctacagatctt tccctaagag 310

caacacacacat (continued) 10 410

<210> 19918
<211> 416
<212> DNA
<213> Glycine max

<400> 19918
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tcatttggcc aatgcttaga agattgtctt ttaggctggg aactagtaag acatcatgga 180
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<210> 19919
<211> 410
<212> DNA
<213> Glycine max

<400> 19919
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ttctgatacc aatgccagat gtcttacagg atgtcacgac atcacgcttc agaactgca 180
gatttatctt gagtgtatga acagattaaa catgtctata acacacgata atttgttaacc 240
cagttcgggt caacctcacc tacatctggg ggcctaccaag ccaggggagga aatcactaa 300
aatagtgtta gtccaaggct taacagccac tatttacaac ctctctcactt aacctactac 360

cgtgggacct ctacctatga gccactctta tatatgagaa cccctctcac

410

<210> 19920

<211> 359

<212> DNA

<213> Glycine max

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gctctgtttg gacacggtga tggtaatttc ttggaacat cagagtttga tatcggtatg 240
ggagttggat ttgagcagg attttgggt tttgttagtg ttgtttctt caacagaact 300
tggaggcgtg cctattttca ttatcttgac cacttgagag atctgattta tttgataat 359

<210> 19921

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19921

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aagttctact gtcgccatta acaggtgatt ttatcattaa tctacatctt attcgttcat 180
acacattgaa atgacttatt ttagttaggt aactaccatc ttagctaac tctctcccag 240
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tcatgaattt gtgaacttcg gtactatctc ttatgccaaag tctccncaat atattgtacc 420
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<210> 19922

<211> 343

<212> DNA

<213> Glycine max

<210> 19925
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 19925

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      aaaaatgctg ctggcccaag cagaccatac attctctcac caatccaaac acagcaacaa 240
      cccagatac agccaaacagt tgaggccctt ccacaacctt cctctgaaga atttgtgagg 300
      caatgacta tgcagaacat gcagttctag caagagacca gagctccat tcagagctta 360
      acaatcaga tgggacaatt agctacccaa ttgaatcaac aatagtcaca gaattctgac 420
      aag 423
  
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<210> 19926
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19926

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      anangnctaa gggcgcttt gcggccttgt cctgtttttt gtccttgctc tatcaaatcc 120
      ccttatctag attctctct aaattctgag cgttttgata tatagtgggc ctcaaatgga 180
      caaccataac aaaagttatg agcatttgaa gtttacttgc cctatctatt gacatctctg 240
      ttatcctatc taatatctta tctgttatcc tatctaatat cttatttgat ttccgatcta 300
      ttatcttate tattatctta tctaatatct tatttgatat catatctggt acccaaatta 360
      gagctatctg ctatccagat ccaatctaat atattattat ccaaatc 407
  
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<210> 19927
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19927

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 tttgaagctc caaacttga tctcaaaaaa atatgccatg accattatct tcaagcccat 180
 tctctctcct cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc
 cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc
 gggaatttc atgtattgt taaactgtgt tgtgcacc caaaaagaat ggctaattgt 420
 tctgtgg 427

<210> 19928
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 19928
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 agacaaacgg attttatgaa ggggaggcac attcttcctg gtgttttgat tgccaatgag 180
 gttatagctg aggctaaggc tagaaataaa ccttgcctgg tcttcaaaga ggattttgaa 240
 aaggcgtatg attcggtttc ttgtggtttt ctgactaca tgttgatgag gatgggcttt 300
 tgtgaaagat ggaggaaatg gattaatgtt ttctgtcca ctgcaaccat atccatttta 360
 attaatggaa gtctgttttt ggagatgcca ctcaacataa tgttagaacc ttaaatgt 419

<210> 19929
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 19929
 ttctgttata aaggttgatg aaagaggatt gatgtggttc taactgggtg acatatggag 60
 attccataaa gatggttgcc ttgagatcat tgatcggaaa aaggacatag ttaactcac 120
 acatggagaa tatgtgctct tgggaacagt atcaatgtcg gcttgggaa cgcacttctt 180
 ttaatatata ataataatat tatttaatac aggttgaggg cgtgtttct tgcctccctt 240

tgtagacaat atcattgtgc atgctgaccc ttctcatagc tactgtgtgg cactccttgt 330
atctctctcat tctgcttcgg agcattgtgc t 331

<10> 19931
<11> 19931

ttatgatgtt caacagagac tatgttgaca taattgaaga ttgttcttgt tgcctctaatt 60
gcttgatcgt tatgaattgt aatctcacat tagagtcttc tatctttgta gtataattat 120
gactcatctt ttgagcgcac aaattaaatn taaatatgta tctgacatag ttgcatttaa 180
tcttatttta agtaagttat ctatctttgt acgtttcttt aatgtagtgg caagatgacc 240
aagttatcta tctttaatta gtgttactta gtttataatt aattattact taagccacat 300
aggccaaate taattctata tattaatttt aggtcaagat caatcttatt ttaagtaact 360
taactatctt tctatgtgtc taatgtgga 389

<210> 19931
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19931

cttataattn tcatatgata ataaaactct acaaaaatgt acctagatcc ataatactcc 60
acaatgcaaa gaatttaaga ataaaacttc cttaaattctt taataaagat tctcacacac 120
acattatata cacatacaca tagagtatga ttattatgtg aatgacaatc ttatatgaga 180
atgagaatag ttaattttcaa tcatgtgatt gaaatgaaag atttagatta aaaatatttt 240
aaattccaat tanaacctca tgaatcata aaatctctaa gaaattaate aaatatctaa 300
tttatcagct ccaaatatat cttaacctca tcatcaccat tatgacatc agtccaccac 360
cctgcacatg accgttgtat gtcaccacca acatgattcc gacagtggca gcaacaacga 420
ttatagtcac tgtg 484


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<223>      unsure at all n locations
<400>      19334
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[illegible]

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#E10>      19435
#E11>      405
#E12>      DNA
#E13>      Glycine max

```

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1400> 19935
tataatatat tgatacgttc gaaattaaac gtcggaaact cttgagaaat tcaaattggtc 50
ataaattttt acacggatgt ccgattcggg cgcataatat gtcgagaggc tcgaaattga 100
acaacggaag ctcttgagaa attcaaattg tcataacttt tcacacggat gtcgatttca 150
ggagcatcac atatagagac gtcgaaatt caaatggtea taacttttca cactgatgtt 240
cgatacaagg ttataatata ttgatacgtt cgagattaaa cattggaaac tctctagaaa 300
ttcaaattggc caaaactttt cacactgatg tccgatttaa gcgcataata tctcgagagg 360
ctcggagattg aataaacagaa gctcttgaga aattcaacat gccat 405

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42102	19936
42112	291
42122	DNA
42132	Glycine max

40238 unsure at all n locations
40001 19436

gtcactatatt ctgacgcctc acaatcggac atnccactta aagtttatca ccatctgaat 60

tctcaadaa cttccgttgc tcaattctca cctctctctc atctgatttg tctgaatcgg 120

acatgcgtgt gaaaaagtat gaccatttgt atttctcaag agcttcogat tgacaatttc 180
aagcctctcg acatattatg cgcccggaac ggacatccgt gtgaaaagtt atgaccattt 240
gcatctctca agagcttccc atcttccatc cagagctctc cgacatatta 291

<210> DNA
<213> Glycine max

<400> 19937

tcttgaggtc ttctatgcaa tgcccttggg gggtaggatt actatattct ctccccctt 60
gaaaaggatt tgatctcaaa tccatagggt cttgaaactc atggattctt tctcaaac 120
ctctaaaaag aataaaaaaa tatgtattag tgatgttggg tatgttagag taagataagg 180
atgaagaacc cctttcttgg ccattctccc atgagagaat atagtctctc accaactcag 240
tgagtgggtc tacaagtata gaaaaaatat ggataaacct ttctgaaaag tttgttaaga 300
tattgaagcc cctaatttcc cttatacatg gcggagtaag ctactcaaga atgaccttta 360
ttctcttagg gtccatggga agcccttgat cactatttaa aaagttaagg aaagtaatgg 420
aataaaatat accttttttc tttatttcca tgttgattat tctacaa 480

<210> 19938
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19938

ctttgatact ntgaaacaga aactgacctc tgcctccata atctttgctc caaattggac 60
aatagatttt gaaataatgt gtgatgcaag tgattatgca gtaggatcag ttctgggtca 120
aaggaaaaat aaaatttttc atgtcataca ctatgaaaag aagggttttaa ataaagctca 180
aataaattat gccacaactg agaaataatt gcttgcaata gtatatgctt tggaaaaatt 240
tagatcttat ttgataggat ctaaaattat ggtttttatt gatcatgttg ctataagtta 300
tctgttagtt aaagctgatt ctaaaaccca acctatccga tggattctgt tgttgcagga 360
attgactta aagatcaagg ataaaaaagg aagtgaaaat tatgtagttg atcatctgtc 420

taggctgacc aatgatgagg tgatcacaca agaacctg

458

<210> 19939

<211> 424

<212> DNA

<213> Glycine max

caatcatt cctctctga cctctctga cctctctga cctctctga cctctctga
ttgggaatga ttctctcaga tatacctgag tcaatttat gagagagaga caacacacat 120
ttgaagtatt caaggagttg agtctaatac tgcaaagaga gagagatagt gtcacatga 180
gaateacgag tgaccatggc agagagtttg aaaacagcaa gtttactgaa ttctgcacgt 240
ctgaaggcat cactcatgag ttctctgcag ctcttacacc acaacaaaat ggcatagttg 300
aaaggaagaa caggactctg catgaagctg ctacggtoat gcttcatgct caagaacttg 360
cctataatct ctgggctgaa gccatgaaca cagcatgcta catgcacaac agagtctcac 420
ttat 424

<210> 19940

<211> 398

<212> DNA

<213> Glycine max

<400> 19940

atactcaacc tcttagatga gttatgtctg cgaatcggac atctctgtgat atgttattac 60
catttgaatt tctcgagtgc gtggcgttgt ttaatttcaa gcgtctcgat attttatgtc 120
ctcaaattcag acatcggagc gaaatgttat gaccattcga agttgtcgag agcttccgtt 180
tttcaatttc gagcgtctac atgagttatg tcaccgaatc atgacatctg agtgaaatgt 240
tatgaccatt ccaatgggtc gagagcttcc gctgttcaat ctcgagcgtc tagatgagct 300
atgtaaccga atcggacata cgcgttaaaa gctgtgaaca tgctgatatg gcgagagctg 360
ggcggtttca atcacgagcg tctcgtatta ttatgtcc 398

<210> 19941

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 19941

aaaaggtaat attgtagcgg atgctctttc tgggcgtcat gcattacttt ctatgcttga 60

aagcgaattg attggctcttc aatctcttga aagcagcat gaaaatgag aactnttgg 120

aaatctctt aagcagggtt aatctcttga aatctcttga aatctcttga aatctcttga

caagaacatt nttattggcc tcatatgaaa aaggatgtg 339

<210> 19942
 <211> 245
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19942

tgttgatgca agaggagcat cccattgcat antttagtga gaaatcgaat ggggctgctc 60

ttanctattc tacatatgat aaggaattgt atgccttatt aagagctttg cagacttggc 120

agtataatct ctgcccgaag gaatttagta ttcacagtga tcataagtct ttgaatactt 180

gaaggacaag gaaagttgac aagtgcctgc cnatatgtgg aattcttgac aattccccat 240

gtg 243

<210> 19943
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19943

agcttgtna ccccatgttg aatntgcttt ctttataget gttcatagca ccactaattg 60

ttctctttt gaagttgttt atggttttaa cccactaact cctcttgatc ttttgcctat 120

gcctaattgt tctgttttta agcataaaga aagtcaagca caggcggact atgtgaagaa 180

gcttcatgag agagtcaaag atcanattga gaggaaaaaat aaaagctatg ctaaaacaagc 240

caacaaaggg agaaagaagg gtgtcttcca acccggagat tngtnttggg tgcacatgag 300

aaaagaaagg ttctcggaac anaggaaac aaagcttcaa ccaaggggag atggacatt 360

tcaagtgcctt ganagaatca atgacaatgc ttacanagtt gagctgcccg gtgagtataa 420
 tgttagttcc accttcaatg tctctgatnn tatctctttt ga 462

<200> 19945
 <201> 467
 <202> DNA
 <203> Glycine max

<204> unsure at all n locations
 <400> 19945

taattattca tgcactatgt gtattttaat gnttcaaaaac ngctngttct taaatctaaa 40
 tagcttagtt ggagaattaa atttaaaaaa taattataaa ataattacat aactcttcat 100
 gogatattca caactttata acataattag tagtatctaa caacttatat ttgttatata 140
 taattttaaa aataattata ggaattcatt aatgtacacc taactatttt tttagaagta 240
 gtaactaaat tacaataaga ttcttaaaat acatcccagc cctaagttgt taagattatg 300
 ttttaataaga tattttagga gtctataagt tattttgact aaagtaaact tgtctaatat 360
 atgagtttan tttttataaa ctaccttaag agaacttatt ttgataagtt acttaaactt 420
 ataaaagata agctaactta aaagtttctt ttcac 455

<210> 19945
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19945

agcttcatac aactgagaca tggtagaata atagngtact ccaggcatng cegttnctg 40
 agatctcacc accttacag actatcgaaa aaagctttta atggaagtca agagcacgaa 120
 actgcgctga taccattgac tggtagaatag gtctccagc gggttgaaca cctgaatact 160
 gtattttgaa agacctaaaa gaaggataaa agtaagaact gcatatggaa gaagaggtcc 240
 attttctttg atatttcgta ttggtttgat ctagatgta gacattgtat cgatgttatg 300
 catgttgaga aaanagtatg tcatagtgtc attgagaaggc tctttaacat tcaatgcaag 360
 atgaaagatg gtctgaatac ccgtcatgat ctatctgaca tgggtatagc atcgacgtg 420
 catccaaagt ctggggggaa aatataactg cctccaaact gtccatc 467

<210> 19946
 <211> 437
 <212> DNA
 <213> Glycine max

atgatactt tgggttctt ggggagggg ggggagggg ggggagggg ggggagggg
 gaatgcatat tcatggacaa gattctaaag ggaaagggaa aggaagcaat gaagatcctc 181
 cogaagaaga tcatccctct gacaacatta ttggtgatat ctcaaaaggg gtaacaacta 240
 gacattctct taaagattta tgcaataata tgggtttttt atctatgatt gaacctagaa 300
 atataaatga agccatatta gatgatcatt ggatagttag tatgcaagaa gaactaaatc 360
 aatttgaaag aaacaatgtg tgggaattag taaagaaaac tgaaaattgc cctatcatag 420
 gaacaaaatg ggtatatt 487

<210> 19947
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19947

tgcagctat taagcccaat caaaacccac gtctgcacat acccgcacac aatcgcggnc 60
 caggggtcta ctacggcaca gcccgatgta atcgacagca acccgtaag cagggcgta 120
 cctcggtaaa tccgggtcca atgggcccac aataacgga gtgctccag ccaatgccgt 180
 cgtgacagct gtcctcccta tccgggtcca ttgaccataa tacccttgc tatagtata 240
 aacgaaccag ggttgaagcc gtaccacccg aaccacaaca taaacgaacc aagcacaact 300
 aaagacgcgc tgtggccacg caaagccaca gacgggcccg tccggtcgaa ccggnagatt 360
 ctggggcctt caattaaagc ccccccacatg ctgcctatcc cgcacaacct gtgaacaacg 420
 cctgagcccg caaagtcgat gactccagac ccgaacaaaa ca 482

<210> 19948
 <211> 414
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19948

acttcaaca ttcatttcc accctctcga taagttatag gactcaatca aaaaatcccc 60

acttcaaca ttcatttcc accctctcga taagttatag gactcaatca aaaaatcccc 60

acttaaaaagt tatggctcgtt tglattggct cagagcttca actctcaatt tcaagcgtct 300

tgatatgtna cgggactcaa tcagacatcc gagtaaaaat gtattgtcag tntgataggc 360

tcagaggctc aactttcaat gtctagcgtc tcgatatgtt acgggactca atca 414

<210> 19949

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19949

cgtttaaagg tactttcata cacagtaaatt aaatgaggaa gaattcttct agagaaaata 60

agttatgtat tataatgtaa aattatttta cattaatatt caattataaa ttaacatata 120

tgataaattt gttgatattt ataataacta ccttgaaaat cgtataata acgatatttt 180

attagtttag tataaaaatta ttttaatttg tcatgactat taaattcttt aaatatttaa 240

tataccacta ttttcataat gaatgatatt atgggtgatca gtgttatgaa caattttaat 300

aaatgtaaat gttaatctct tcgccttaac ttcaataact tacaattnt ataaatgtca 360

ttgttttatt tgaataatat aacatttgaa ttaacataaa ggtcaaagga tgatcgtcta 420

tttagcttaa t 431

<210> 19950

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19950

tgaagagaat tcaagagaga ggataaggaa acctattatt ttaacatgga aagaaataaa 60


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ggagtttata aggaagatat tttaccacc ttattatgag aaatatgttt atgataggct 120
acaaaacctc acaaaaaggta gcaaaagtct tgaagaatac cataaagaga tgataatgac 130
cattacgaaa gccaattatc aagagcctaa aacttcctaa acaaggctcc tctcttcccc 240
cctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
cctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc
aacat 425

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>210>      19952
>211>      453
>212>      DNA
>213>      Glycine max

>400>      19952

ctatgctctca attgtgaggg tctcgatata ttaccgggtt cattcggaca tccaagtaaa    60
aggttattgt tggctgaatt tccctatgagc ttccggttttc aattttctagc gtctcgatat    120
attagaggaac tcaaccggaac atccctctat aaagttaatt ttatttcaat ttctctcaaac    180

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cttcggatct aaatcttgag cgtctcgata tatgacggga ctcaatcaga catcogagtc 240
 aaaagttatt gtctgttgaa ttgatacga gctcccggtt tcaatttggg gcacccctcg 300
 ataaattaca aaactctgtc gggcatcga gtaaaaagtt attgttgttt gaattttcta 360

<210> 19953
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19953

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 atatcttaag.aagggggggg ttgaattaag atattcgaaa ctttntcttc taattaaaaa 120
 tctatcttac ttntactta agttatgaat tcccttanag acaatcttct tanatattaa 180
 ttcnatgaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
 agagaaaatg caaactcagt tntatactgg gtccggccaca ccttctgtgc tacgtccagt 300
 cccaagcaa cccgcttgag agttccacta acttggaat tcttntaca agttctaaac 360
 acacaaggac aacccttctt ttgtggtaga gattctnaca acaagagact cacagtctct 420
 taatccctta gagaatgaga agaagaagag gaacanatct ctcttgaaag agat 474

<210> 19954
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19954

tcagcacttc tctaggggtt cagggcttc catcagctct gtattaatct gccatatact 60
 cagccgggat taggcctcat gagcttcttc atattcagct gcttactgga tttagcttgg 120
 gtggcttccc tttagatac ttgggtgttc cctttttatc atctagatta aatgtatata 180
 actatgctcc ctgtcttccc aagattactg gcttgattca gggatggagc aggaagtctt 240
 tatcttatgc agtaagcta gattgattca gacagttat tcaagggaatt gtgaattctt 300

ggatggggat ttttctttg cctcaatctg ttctggaccg gatcaaggct tcatgccgta 360
 attntctgtg gggcaaagcg gatattggca aanacaagcc cttgggttgc tggtcagtag 420
 ttgtttctcc gaaaa 435

<23> unsure at all n locations
 <400> 19955

agcttgagca cctccttctt tacctcttcc ttcattgttg ggttcagct tctctgaagt 60
 tctgggactg gctgttagtc ttcttccttc attatcttgc gcctgcagta agcagggcta 120
 atacctttaa gatccgatat atgccaccca attgcttctt tgtgtttctt cagaatttct 180
 atcaacttgc ttcttccttc ggatgtgagt gtattgtcga tcaccataag cttactctca 240
 tctctcttct ngaacacatg cttcagatgg gtgggaaata tcttcaatc taccttcttc 300
 ttcttagatg gagtcttgc ctttagttcc tcanaactgg cctctctctc anggatgtta 360
 tcttgctgat ccaagtcttc taagcaagcc ttgagatctt cttcttcttc attgggttaag 420
 caatctatcg ccttcacct 440

<210> 19956
 <211> 427
 <212> DNA
 <213> Glycine max

<23> unsure at all n locations
 <400> 19956

tgtcatactt tgtccaanaa agagaaaatc agttttttgct tgtgtctgcg ccggggttaaa 60
 gtcctacaag gatactcttc aaatattaag agccttgtgc agttgaagaa gcttaacctc 120
 gtgggggttaa agtctcatga ttgtcacatg ttgatgcaac aattgtttgc cgtggccata 180
 cgagacattt tgcctaacaa agtcaggtta gccataaact gcctgtgctt tttcttcaat 240
 gccatgtgta gcaaagtctt tgatctgtc aagtttgatg acctggaaaa caaggctaca 300
 attatactgt gccagtggga gatgtattt cctctctctt tctttgacat catggtccac 360
 ttaattgttt aactggtcag agaaaacaaa tgttgtgtgc ctgtatatct gtgctaatg 420

427

2000 2000

<211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19959

gagatgataa gatttataa gatttataa gatttataa gatttataa gatttataa
 gaagataaat ggccgcggaa tggagaagga agagagagag gagacgcgc ttcactgaga 240
 agataagctt agaagaagct caccaccata cgaggccatg gataagagct tggaggagga 300
 aagatagaa tgaagggagg tggagagaag agcagatat tctgtgctca gatagagctc 360
 ccagatctaa agttaatat canatgatca 390

<210> 19960
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 19960

taagaggcca tggagattga gatggagaca gacacgtgtg gtttatagat ttcacctgta 60
 ttagttttct caaacattat ctttgcccc aattacatga ttagatagcc ttgtgacaat 120
 caagggagta ccattacata aaccttcaat ttgatctaaa ttccttaaaa gcatcattgg 180
 tgtgccaatc ttcaatttga ttttatgatt tgggaaggccg atgttccaag agaatttgaa 240
 aattcaaggg ttaaagcctc gaatatttgg tcttcatttg attataaatt gtcaaaagaa 300
 tctaagctta gatattgttt ttcaactata acataattgt aaacaattta actaatttga 360
 ttgtttcaaa tgaaagatat ttgtgtaact ttttcaaag gtagatgaga ttacatcgat 420
 ttaaagataa tacatatctc 439

<210> 19961
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19961

agctnatagc caattcanac gacanataac ttttacgcga atgtctgatt gagtcttgta 60
atataacgag aagctcgaaa ttgaatgttg aacctctgag ccaattcaaa cgacaataac 120
cttttacacg gatgtctgat tgagtcctcg catatctga gacgctcgaa attgaaagtt 180
cttttacacg gatgtctgat tgagtcctcg catatctga gacgctcgaa attgaaagtt 240
cttttacacg gatgtctgat tgagtcctcg catatctga gacgctcgaa attgaaagtt 300
cttttacacg gatgtctgat tgagtcctcg catatctga gacgctcgaa attgaaagtt 360
cttttacacg gatgtctgat tgagtcctcg catatctga gacgctcgaa attgaaagtt 420
cttttacacg gatgtctgat tgagtcctcg catatctga gacgctcgaa attgaaagtt 480

<210> 19962
<211> 466
<212> DNA
<213> Glycine max

<400> 19962
taaattattca atttcgagcg tctcgatata ttacgagtc cattcaaaca tccgagaaaa 60
aagttattgt cgtttgaatt tgctcagagg ttcaacattc aatttcgagc gtctcgttat 120
attacaggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
cttcaacatt caatttcgag cgtctcgata tatgacagga cgcaatcaga catcctgtga 240
aaaagttatt gtcgtttgaa ttagctcaga ggttctacat tcaatttcga gcgtctcatt 300
atattacagg actcaatgag acatctgact aaaacgttat tgcgtttga attggctcag 360
agcttcaaca ttcaatttcg agcgtctcga tatatgacat gactcaatca gacatccgag 420
taataagtta ttgctgtttg aattggctca gaggttcaac attcaa 466

<210> 19963
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19963

agctnagatt gctctattca atggagatga caagaatata ttcagactga tcaacacttg 60
cacagtgggc aaggatgcgt gggagatcct gaaaaccact catgaaggaa cctccaaggt 120
aaagatgtcc agactgcaac tatgggctac aaaattcgaa aatctgaaga tgaaggagga 180
agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gngagagaag atgacagatg aaaagctcgt gagaaagatc ctcagatcct tgcctaagag 300

atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtgga 360
 tgaastcatt ggttcccttc aaacctttga gctaggactc tcggata 407

<200> Feature: 1000

<200> Feature: 1000

<200> Feature: unsure at all n locations
 <400> 19965

nttgcaagtt ggaatcattt atcctatctc cgacttccaa ttggtgagtc ccgtccaggt 60
 agttacgaag aaaaaccggcc tcgccgtgat aaaatatgag aaggatgagt tgattccctac 120
 tcgggtgtag aacagttgga gagtatgcaa cgactatagg aggotgaacc aggttaacca 180
 aaaggaccat ttccactgt cattcattga ccagatgctt gaaagcctgg ccggtaaact 240
 tcaactactgt ttcccttgatg gttttctcgg ttatatgcaa atcactattg cttctgagga 300
 tcaggaaaag accacattca ccttcccttc cggcactttt gcctatagga ggatgccttt 360
 cgacttgtgc aatgcccctg gtaccttcca gcagtgcctg attatgtatt ttagtgattt 420
 tttagaaaat tgcatagagg tgttcctgga tgatttcact a 461

<210> 19965
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19965

ntttgaaaga atggaggaga ggaagaaaat agaatagcac tcgtctttgc ccgctgaaat 60
 tttctggaca gagcatatgt tgaacaaaaa ctcttagaaa gatattgaga aattggttgt 120
 tttaaattca tgcctatgac acatatttat agccatttga ttgctcctga agaagccatg 180
 ttaaaagttg tgactttttg caattctctc aaaaccagtt agttaactta aaaagtgtgt 240
 acttgacaat tttttcaaaa ccagtcactt taaaagtigt gactcttgac aatttcttca 300
 aaatcagtea ctggtaatcg attaccataa tgggtgaate gattacacag tttattttat 360
 caaaagtigt gactcttcat gttgaatttt gaaatccaac gctcaaaaaa catttaaat 420
 ctattacaaa tat 433

<210> 19966
 <211> 449
 <212> DNA
 <213> Glycine max

tttcttctctt tttcttctctt tttcttctctt tttcttctctt tttcttctctt tttcttctctt
 ttaacattagc tggtaacattagc ttaacattagc tggtaacattagc ttaacattagc tggtaacattagc 120
 tgcctttgctt atgtaataca taacaataaa aataagcagc tttgtctatg tcatatatgt 180
 aaaataaatt aataataaaa tttctattag tactataac aagtgtggcg ttctctatga 240
 tttttataat tatgatttga tgtatagaat ttcatatata gaatgggttat gaaaataata 300
 tacatggaga gaaagtaatt ttaattgaat ataattagaa taaattatta aaatattaga 360
 catatatact tggtttcaaa tttattttta aaataaaata atttggtattt atatacacac 420
 atgtacgtgc accagaaaca aattaatat 449

<210> 19967
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 19967
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 acgctggctt cttggcggtg tctcgatacc ctgagtgggt ggccaacatt gtgtcggtcc 120
 ctaagaagga tgggaaggta tgaatatgtg tggattatcg ggacctaatt caagccagtc 180
 ccaaagacaa tttccctcta cggaacatcg atgtctctgt agataacacg accaattttg 240
 ctttgttctc catcatggac gggttctcag gctacaatca aataaaaaatg gtactagagg 300
 atatggaaaa gacpatgttc gtcacctgt ggggaacgct ctgctataag gtgatgtctt 360
 ttgggctaaa aaagctggg gcaacctatc aacgggctat ggttgctttg ttccacgaca 420
 tgatgcaccg agagatcgaa gtct 444

<210> 19968
 <211> 416
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19968

atctacattt gttttctgat agnngatttg caggagatgt tgcatacaga aaaaattacta 60
tctttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
tctttttt tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt
caatttttct aaaaattttt tttttttt tttttttt tttttttt tttttttt tttttttt 240
ttttttttga taatagattct gcacaagagt ttgcacaaga tcttggtgttc catgaacgaa 300
gtaagcatat agatacaagg tatcatttca ttagagagtg cattgccaag aaagaagtag 360
aattgaactca tctgaagact caagatcaag ttgtggatat tttcaaccaag cctctc 416

<213> 19969

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19969

tctatagaag gttcatttct aattttctct caattgcac actgctcaat gagctggtga 60
agaaaaatgt ggcattttacc tgagggtgaaa aacaagagca agccttttgt ttgctcaaaag 120
aaaagcttac taaggcaact gttctagctc ttcttgactt ttctaaaact tttaagctag 180
aatgtgatgc ctctggagtg ggagtttag ttgtattgtt acaaggtggg caccctattg 240
cttattttag tgaaaaactt catagtgcc cctcaacta ccccaactat gataaagagc 300
tttatgcctt aataagagcc cctcaaaact gggaacattt ccttggttngc aaggaatntg 360
tcattcatag tgatcaccaa tcaacttaagt acattagagg gaaaagcaag ttaaacaaaa 420
ggcatgcaaa atgggtagag tacctagagc aatctccata t 461

<213> 19970

<211> 414

<212> DNA

<213> Glycine max

<400> 19970

gtgaatgctc tattcaatgg agtggacaag aatattttct tactgaacaa cacatgcaca 60

atggccaatg atgcatggga gatcctgaaa accactcatg accgaacott caaagtgaat 120
atgtccaaat agcaactatt ggccacaaaa accgaaaatc tgaatatgaa ggaggaacag 180
tgtattcatg actctcacat gaacattctt gaaaatgcca atgcttgcac tgccttggga 240
tgccttgcac tgccttgcac tgccttgcac tgccttgcac tgccttgcac tgccttgcac
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<210> 19971
<211> 395
<212> DNA
<213> Glycine max

<400> 19971
agcttgaatt tgaacaacgg aagctctoga gaaaatogag tggtcataaa ttttcacaca 60
gatgtccgat tgggggaaat aatatatoga gaagcaagaa attgaacaa ggaagctctc 120
gagaaatatg aatggtcata acatttcaat cggatgttcg atcgggggac ataatttata 180
gagacgctcg aaattgaaca accgaagctc tcgacaaatt agaatggtcg taacttttca 240
cgagaatgtt cgattcgggg acataactca tctagacgtt cgaaattgaa caacggaagc 300
tctcgagaaa tttgaatggt cataagtttt cacacggatg tccgattcgg gaacataata 360
tatcaagaca atcgaaattg aacaacggaa gctct 395

<210> 19972
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19972

cccatttcta ccaactacaa aacctaaaga aactatatta tctacacaaa aggtacactt 60
ctctatattt gcctagaggg tgttttctct aaggactgaa agaacttgtc tgagatgtcc 120
taagtgtaca tctagcctcc tactatacac taaaatatca tcaaaataaa caactacaaa 180
tctacctatg aaatccctta agacatgatg cataagcctc ataaaggtgc tnggtgcatt 240
agtgaagcca aaaggtatca ctacccttc atacaaaaca aacttgggtc tgaagacagt 300
tttccactca tca 313

<210> 19973
 <211> 464
 <212> DNA
 <213> Glycine max

ccatcatt ctttttctt cttttttaa tttttttttt cttttttttt cttttttttt
 tggggcgtat cctttgaaag atccgtaccc tttttttgca catgttctgt agttgcctcc 180
 tttccgaaga cattatactg acactgccta atgaaggcaa ccaactaggtc cttccaagaa 240
 ttgaactcggg aagggttccaa gttagtgtac caggtaacag ctaccccagt aagaatttct 300
 ttgaaggaat gtatcagtaa ttctctatct tttgcgcctg ccccccattt ccgataatac 360
 atcttcagat agtttttggg gcaagtagtc cctttgtact tgtcaaaagtc caacaccttg 420
 aaottgggag gggtgatgat attgggttct aggaaccaac tttt. 464

<210> 19974
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 19974
 tcttggagtc ttctatgcaa tgccttgag gggatgatt atttcattcc ctccccctt 60
 gaaaaggatt tgatctcaaa tccatagggt cttgaaaact atggattctt tctcaacac 120
 ctctaaaaag aataaaaaaca tatgtattag tgatgttggg tatgttagag tacgataagg 180
 actgaaaacc cctttcttgg ccatcttccc atgagagaat atagtctctc accaactcag 240
 ttgagtgggtgc tacaagtata gaaaaatatg ggataaacct tttgtaaaag tttgttaaga 300
 tattgaagcc cctaatttcc cttatacatg gtggagtaag ctactcaaga atgaacttta 360
 ttctcttatg gtccatggga agcccttgat cactatttaa aaagttaagg aaagtaatgg 420
 aataaaatat acctctcttc ttatttttca tgttgattat t 461

<210> 19975
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19975

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tggatcatt t tgggcata aattttggg agttggaagg catctctcga attaatctc 120
tgggcata aattttggg agttggaagg catctctcga attaatctc 180
tgggcata aattttggg agttggaagg catctctcga attaatctc 240
tgggcata aattttggg agttggaagg catctctcga attaatctc 300
tgggcata aattttggg agttggaagg catctctcga attaatctc 360
tgggcata aattttggg agttggaagg catctctcga attaatctc 420
ggtaatt 426

<410> 19976

<411> 417

<412> DNA

<413> Glycine max

<400> 19976

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agaaccagg ctcctatctg gtagttcact tcgcgacgtt tcccatcagc ttggcttttc 120
atagcagctt gtcccttaga agcttatttc gaatagcttg gaaagtgata tccctgtcag 180
ttaacatctc ttaacggcc tcaatgttcg aagacctgt aatatattct ggatagttaa 240
aggcttttcgg ctaaaggtaa caccatacgt agtggctcca gttccacat tccatgaagt 300
attatgggat cattcgacc accgagaggag ctccccccac aagcttggcc gaggatggat 360
gaaggctcgc aaatattgtt caattatgcg attcaaaacc tctgtctgtc catcaat 417

<410> 19977

<411> 377

<412> DNA

<413> Glycine max

<421> unsure at all n locations

<400> 19977

gacactctcg aacactcagc ctatagaat atgtanataa gagactctga ctattcttta 60
atcattcatg ttccatgga tgaacaaaat gctattctc cagaaaagga tatttttaat 120

gatgttgcta aatccttata acgaatgcat atccttggac actattctcc agggacaggg 180
agaggaagca ttgaaaatcc tcccgaaaaa gatcatcccc ttgaccacat tattgggtgat 240
atctcagaag gggtaacgac taaacattct ctctaagatg tatgctataa tatggctttt 300

<210> 19978
<211> 164
<212> DNA
<213> Glycine max

<230> unsure at all n locations
<400> 19978

tatagaatat ataattacat aactaagacc atttttagatt ttattcatgg caacctccga 60
tgaggetaga gtgctatttt ctcccacaaa cgatatctta natgatgttg cagaatcttt 120
acaatgaatg catattcatg gacaatatcc taaagggtaa gggaaaggaa gcaatgaaga 180
tctctccgaa gaagatcatt cccttgacaa cattattggg gatatctcaa aaggggtaac 240
aactacacat tctcttaaag atttatgcac taatatggct tttttatcta tgattgaacc 300
tataaatata aatgacacca tattacatga tcattggata gctgctatgc aagaagaact 360
aatcactt 369

<210> 19979
<211> 407
<212> DNA
<213> Glycine max

<400> 19979

cgttgctcct ctcttacacc tgcagatgta atcaagtttc tcataggaga ttttaggttg 60
agtaaagctc gagccagtga tctcttttgg gaagetgttt ggccctcgtct gttagcaaaa 120
ggctggcatt ctgaacagcc tatagatcaa gttgtttctg gatcaaaaada atcttttggtt 180
ttctctgtac ctggtgttaa gaaattttca agaaggaaac tgataaaagg tgaccaactac 240
tttgattcta taagtgatgt ttggaataaa gtagcatctg accctgaget tcttgagact 300
gaaagtcaag caactgaggg cagtgtagat agggaaaaaa cagaagacaa aggagaccta 360
gaggggtggo caaataggga acaagttcat taccttcaat ctcaaaag 407

<210> 19980
 <211> 389
 <212> DNA
 <213> Glycine max

atttatttca cttctctttc cggttataga ttcccttaac aatgaacttc ttaaatatta 180
 attcaaatata aacaatttga atatgaatgt taagcaataa taaacaaagg aggttaaggg 240
 aagaajaaagt gcaaaactcat atttatattg gttcggccac accttctgtc ctacgtccag 300
 tcccaagca atccgtataga gagttctact atcttgtaaa ttctttttac aagttctaaa 360
 caacaaaaga caatccttcc tttctgtt 389

<210> 19981
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 19981
 taacaatcag tgtcatacta ttgatcaaaa caaagtcctg atttatatgc aatactagac 60
 tcaaaatatg caacaaacac tagacctaaa tcagtgtcac agaaattgga agaaaatatt 120
 ttatccaagg acaaaacttca agccttattc catgtattgg ggggaagtta tggctggcca 180
 tatgggtaga ggtgtcatag aggagcaggt atggaggaag ggaccttgga ctgctgaaga 240
 ggaacaggtg ctgtttgagt atgtcaggtt gcctggtgaa ggtagatgga actctgttgc 300
 taggcttgca agtaagaaac accaaacttt ttctactgtt ttgtttctta atatatatga 360
 ttggattttc acatttataa gtgacaatat agcaaaaaaa caactgaaat tgttttcaac 420
 ttctactgtt catgttgggt acatt 445

<210> 19982
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 19982


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<212>      DNA
<213>      Glycine max
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[illegible]

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<210>          19987
<211>          215
<212>          DNA
<213>          Glycine max
<400>          19987

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tagcataata gagaaggaag atagatgatt ggagatgcca ctccaaggag aagatgatcc    120
aagaacaagc tcccaccat aggaagccat tgattaaagc ttgtatutac gaaaagatga    180
gtggagggag aaaaagaaaa agagcaagaa aattttttgcc ctatgaggt ctaaaaacttt    240

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gagtgggaatt ctgaaatgga taaaagtgaa aaaaaaggcc cccca

285

<210> 19988

<211> 313

<212> DNA

<213> Glycine max

gaaagagatc atgaggaagc ggcattgtgc ggtactaac tcacgggac tgaattcaa

gaaagatc atgaggaagc ggcattgtgc ggtactaac tcacgggac tgaattcaa 120

gctccaaaaa ctaacccaac gcaactatgg gggtgaggag tattttaagg aaatggatgt 180

gctcatgatt caagcaaata ttgaagaaaa tgaggaggta aatacggctc gattgcttaa 240

tgggttgact aacgatatct gcgatacctg cagagcttg ttgaaaagga tgatttgctt 300

ctcaaaagcac tcc 313

<210> 19989

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19989

aaagcccacc ctaacgcata caacacctta tcataagtag aataattaag ggtaagacca 60

cttaactttt cactaaaata agcaattgga tgaccttctt gcatcaaac agcccacac 120

ccaacatttg aagcatcaca ctcaatttaa aaagatttta gaaagtctgg caatgcaagt 180

atggggggcat tagctagctt tagcttaaga acatagaaat cttcttctag tttatctaca 240

catctcacac caacattttt ttagcacttc attgagaggt gctgccaatg tgctataatn 300

ctaaccacaaat cgcctataaa accttgctga accatgaaaa ctcc 344

<210> 19990

<211> 386

<212> DNA

<213> Glycine max

<400> 19990

aaagttattg gggggggaat ttgctcagag gttcaacatt caatttcag cctctcttca 60

tattacagga ctcaatcaga catccgagta aaaagttatt gtctgtttgaa ttggtctcaga 120
 gcttccaacat tcaatttcga gcgtctcgat atatgacagg acgcaatcag acatccgagt 130
 aaaaagttat tctcgttggga attagctcag aggttctaca tccaatttcg agcgtctcat 240

<310> 19991
 <311> 445
 <312> DNA
 <313> Glycine max
 <323> unsure at all n locations
 <400> 19991

gttgggggat atgtacttta agtgagagag aagatattta aatatgggaa taataattaa 10
 tattacgagt aaataacata tacaagatg attaatTTTT acataatcaa tccatatta 110
 tcatataatg taaattgatt gatagtaata ataaaaatat aaaattcata ttaattatga 180
 ttaagttct aaacattata gatgatatga taaaaaaaaat gtgtataaaa atgagaaatt 240
 aagcaataat gagagaaaat aaaattgaat aatgaaagag agaaagagtg tgaccgtcac 300
 agcttccaat agattggtgt tctctgcaa gtacttgagg acccatgtta gaacactcgc 360
 tgtggtgtca tgtgcagcaa agatgacacc aatgagatta tcaacaactt gagaatctgt 420
 gtgctgctga tagtacatct tgttc 445

<310> 19992
 <311> 355
 <312> DNA
 <313> Glycine max
 <400> 19992

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 gtcaaaaagg aattttcagc ttggccaaca agtatgttta ttaattcta gattaacatt 120
 gcttccaagt aagctgaagt gcaagtgggt tgaccattct tcatcaaaaa agttatgcca 180
 catggagcaa tgatattgga ggacccaacc accaaaaaga catggactgt gaatggcatt 240
 agaatacaac actacttagg tggagatttc gagaggctaa ccaactgttg ccaactgcaa 300

gaagcttgaa cccaacaagg acatccatct attaagacgt taaagaagcg ctct 355

<210> 19993

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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 atagaatata gggcctcgta ttggttagat accttaaaat cccacacaaga ctcttgaaga 140
 cctgggagtc taccctctct ccttcacaa actttgataa ctccaagcca ccttcacatg 240
 ggtgtttcac gggattgcaa tcaagcatat taaatttctt caacaattct ttgtgttagc 300
 ttcttgtga gacaaagata ccattctcgg ttgtcttcac ttccattccc aagtaatatg 360
 acatgagtc ccatctgtc atatcaaatt cacyagacat ggactccttg aagtcttcaa 400
 acaaatttgg gttattg 437

<210> 19994

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19994

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 togagaagcg togaaattga agaccgatgc cctgagcaaa ttogaacgac aataactttt 120
 tactcggatg tctgactgag tcccgtaata tatcaagaag ctogaaattg attatcgaag 180
 ctctgagcaa attcaaacga caataacttt ttaattggat gtctgattga gtcccgtaat 240
 atatcgagat gctogaaatg gaataccgaa gctctgagca aattcaaacg acaataattt 300
 tttactcgtt tttctgattg agtccgtaa tatatcgaaa cgtctgaaat tgaatgtcga 360
 aactctgagc aaattcaaac gacacacaact atttactcgg atgtatgatt gagtcattga 420
 atatctcgag atgttagaaa ttg 443

tgggagaaag gatgacagat gaaatgctgg tgagaaagag cctcagatcc tgcctaaga 240
gaattgacat gaaagtcact gcaatcgagg a 271

<210> 19999
<211> 314

agcgtctccc tttctcat ttatggcaca aaatggcagt tccatattta atttaaggtt
tactaacaag actaaaaacc gtaataagat gaaaaataaa ttctcaattt aatacttatt 120
agtgtatatt taaaagaaaag ctgccaaaaa ttagtaatta ttgattatca ttgggacatg 180
taagaagagac attatgtgtg cttttttttac tgagacaatg ttatttggtt taatagacta 240
ataatgtaat ttaacatatt gaaacatcaa attataaata ttctgtacaa aattaatggt 300
atatacgtgt tggatgtatc ttttcagcat aaaaaggttc ttggatgt 348

<210> 19999
<211> 168
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19999

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ggtcataact ttaactcgg atgtccaatt catgcgcac acatatagag acgctaaaaa 120
atgaacaacg gaagctctcc agaagttaaa atggtcataa gttttcac 168

<210> 20000
<211> 402
<212> DNA
<213> Glycine max

<400> 20000

cgagttttac gcagagtttt tacatcgagt ttctcgggtc tgacgacggc gtggcgggtga 60
tgagtctgga gctcacacct gcatgtaaaa gtctgggtgc ttgggtctcg gcgatgaacc 120
tcttcgtcca tgcagcgaa ttgtttctcc atcgtcagtt tccactccaa attctcgcgc 180
gcgctgtcca attctcatt cagcatctcg tctagccgct ccttgcacat agtcgcaacc 240

ttggaaaacga aaacgatata acttctctaa gtctcatgcc ctgcacggcg gacttggaga 300
 cgggtggggc gccgtaacgg atacgattgt actcggcgag gtgctctctg agaccctccc 360
 cgtagaagta atactctctg ctgactctcg ggaagcggta ccttctctcg attcctctat 420

<210>
 <211>
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20001

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 ttcttttcaa tttagacctt cacttgcctc tgcacattct tcacatactc agctntagcc 180
 tgtgcatcat tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatatac tatctcaaat ggtgaacaat tagttgtgct atggacagct 300
 cgtattataag caaactcaac atgaggcata caggctgtcc aagatttaag attntctnt 360
 aatacagtc taagcagtgt tcttaaagtc ctattgacta cactcagttg accatc 416

<210> 20002
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20002

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 agattctctc tgcaatcagc caaacctgt tgaaccttag gttccaaatt ctggctgctg 120
 atcattctct tacaatcatt tagaatgctg ctgcatttg acgcccagc cttcagagat 180
 atcattgcca gctctcttag gtcgcgtga tcactgtctg ggtccgagga aagcactgc 240
 atgcacaatt cattgtctcc cctgtttctg catatgctct taattagctc cttgcctaatt 300
 tttctctctg ccgcacgct tcnctgatgt gctagaacca accacatgca tatcccatc 360
 accacacaac a 371

<210> 20003
 <211> 392
 <212> DNA
 <213> Glycine max

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 ctggagttgg ggaatgat gtttaatt gtttttaaga gtaagaatgg gttgtaataa 120
 gataaaggca agataaagtg tcaaatgaag aattgaagct gcaggattca cgatgtcgga 180
 tacaatgtcc aggcatacct gcccgaaaat actggagttg ctgaaagcat tgaagttgca 240
 agatccaaga tgtctgacac gatgtcctga catccggccc gaatatactg gacatataaa 300
 tctgttatat ctntaacaga ttattgtgca gttagcaaga gataagatga tctatcttta 360
 ggaacgaatt aagagataat tatagttcga at 392

<210> 20004
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20004

tgtctntaag tatcaagatt caagaatcaa gagaagactc tatcaagata agtactaaaa 60
 aagtttttca aaatattgag tagcacaaga atttttcaca aaatctttta ccaaagagtt 120
 ttactctctg gtaatcgatt actagaaggt agtaatcgat taccagttagc cagcattggt 180
 ttcaaaaactg atttacaaag ttgtaatcga ttaccataat catgtaatcg attaccaatg 240
 tttttaaactg ttagatttca aatttcaaga gtcataacta atgataaaaac attttcaaat 300
 catttttaaac ttgtgtaatc gattacacaa taatttgaat cgattaccgg tgnntctaaa 360
 cattnntgat ttcatntaa acatgaagag cacatctttg atgtgaatcg ataccatgac 420
 tg 422

<210> 10005
 <211> 410
 <212> DNA
 <213> Glycine max

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<323>      unsure at all n locations
<400>      20005

```

[illegible]

<L10>	20006
<L11>	173
<L12>	DNA
<L13>	Glycine max

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<L23>      unsure at all n locations
<400>      20006
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agcttataact tatattgatg atcatagnnt gagaatcata cactccatgt cccttatatg	60
tgcaattgac ttaagcatag cagacatcat acacaagtat ggccaaccca tgccactctc	120
acaactcatt gcttcaactac caatccaccc atccaagact tgcacatcc atcgcttgat	180
gggactcttt actcatcccg gttttctctc tgggcacgat ttggtcgaaa acgaacaaga	240
agtgatcacg tatgagctaa ctgatgcac tagactactc ctcaaggacc acccttttag	300
tttgaggcct ttgttgctag tcacacttga tccaagtgtg attaagtcac ggtgtcaatt	360
ctctacttggctcacaag	378

·G110:	20007
·G111:	411
·G112:	DNA
·G113:	Glycine max

```

:223>      unsure at all n locations
:400>      20007

```

tttttatgta cttgagagtt ttatcatttc gtgacttccg aattttggat tttttgcttg 60
attgaataagc taaatttgcg catctgcctt atttgaatct cttctatttcg aattttadaaa 120

caetgccccaa gtcattgtgt aatttataca atctgcaaac tttgaagttg tgtgggttga 180

tcaaaactgac taagttgcct agtgacatgt gcaatcttgt taacttgcgt catcttggta 240

ttgctgatgc tccataaaaa gagatgccga gaggaatgag taaattaaat catttacaac 300

ttgctgatgc tccataaaaa gagatgccga gaggaatgag taaattaaat catttacaac 300

ttgctgatgc tccataaaaa gagatgccga gaggaatgag taaattaaat catttacaac 300

<211> 135
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20008

tgtatgtggtt acaatgttct taaatttcta tttagttttt aagaacaacc tgtctaggta 60

atTTTTTTTca gaaagacttt taacaaaata agaaaagaaa agtttttcat aattacctta 120

ttacacaacct aatgatagaa gctttttcat attagttttt tccaaaagat atTTTTTaaat 180

tatgtataaa ttaacattaa cttatagata agtntattta atTTTTTTTc tttctatttt 240

cctTTTTTTac tagtacttct aaatacattt atccaaatag acccttaata ttaatatata 300

tcaacaatac ttacatccaa atgatcactt aatcaagact tgaaattatt ttatataaaa 360

taaccagatt aattaaccaa ttacgtgctt gggtttcatt totaacatca atattagtaa 420

ttatttagaa ctttt 435

<210> 20009
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 20009

agctngagct gggaaatttg atncatggat nctcaagaa gaagatagat agtgacatgt 60

ttgtatggtc tgcattgatt gaatagtatt caaagtgtgg acaaatgaat gatgctgtga 120

tagtgttaac agagtatcca aaaccagacg tggctttatg gaattcaata attactgggt 180

atgagcagaa tggaaatgct gaacttgcac atgncattt ctcccgaatg gatgtgtttg 240

agctaglaag tactgatcca cgaacacttg ttaatgctgc ttctgcttgt gacgcagtat 300

ctgattctaa ccttggaaga agtgaacatg gaattgtcaa acgaaagggt tttatactaa 360
gtatgtttgg caattcta 378

<210> 20010
<211> 414
<212> DNA
<213> Glycine max

<214> 20011
<215> 414

gcctcattaa actatatatt tccgaagggt tttttttta taagcctcct atttttaatg 40
gggtgggtta ccattattgg aaaccccgca tgc aaatttt tatagaagca atagatctaa 100
atatctggga agccatagaa attcggcctt acattccccc tatggtggaa gcaaatadca 180
ccatagaaaa aactatgaaa gaatggagtg aagatgacaa gaaattagtt caatacaatn 240
taaaagccaa aaatataatt acatctgctt tagggatgga tgagtabatt agggtatcaa 300
attgtaaaag tjaaaaagat atgtgggata cctacacgt aacacatgaa ggtacaacaa 360
atgtaaaaag atctgggata aatacattga ctcatgaata tagnaatttt agaatgaatc 400
ccaatgaaag catatatgat a 441

<210> 20011
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20011

agcttggtgca tccaatactc ctgatgagga tgc cccatat gctcttaaaa ctggactgat 60
ccatttgctt cgaaagtntc atggccttgc aggtgaagac ccgcaaaaaa atctaaaaga 120
attccatatt gtctgatcca ccatgaaacc cctagatgtc caggaggatc acatatttct 180
gaaggatttt cctcattctt tagagggagt ggcaaaaggac tggetatatt accttgcctc 240
aaggctccatc acgagctggg atgaacctca gagagtattc ttagaataaa tttcccttgc 300
ttctatgacc acaaccatca gaaaagatat ttcaagaatt aggcgaactca gtggagagag 360
cttatatgaa tactgggaga gattcaagaa actatgtgct agttgccttc acca 414

<210> 20012

tagtcaagct aagcactaac aatctccccc ttgggttaat ttgtctaaat cataacttaga 60
 caacttctga gcaggtacga gcagttatgc aagtgggata agcaacttcc attatcagag 120
 taattcaaaa ccaaaaatc tglagttag acaatttcca aatcgtttcc aagaatttcc 180
 aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc 240
 aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc 300
 aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc 360
 aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc 420
 aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc aatcgtttcc aagaatttcc 480

<210> 20015
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20015

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 gctctcgaga gattcgaatg gtcataaatt ttcacacgga tgcccgattc gggcgcataa 120
 tatgtcgaga cgtctganat tgaacaacgg aagctctcga gaaattccaa tggtcataac 180
 ttttcaactc gaggaccgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac 240
 ggaagctctc gagaaattca aatggtcata acttttaact cagaggctcg attcaggcgc 300
 ataatatatc gagacgctcg aaattgaaca tcgaaagctc tctagaaatt caaatggtca 360
 taaattttca ctggg 375

<210> 20016
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 20016

tgtctttaat tccaagttaa atggtaattat gtagtaaaat ataactttcg aagttgata 60
 aatccattaa gttagtaag cagctccatt agcgttctct gaatttcaac atctgcactt 120
 gtctctctat tgaacagagc acctccaatg gcatcaattc catccataaa aatgatgcac 180

gactaatcaa gaaaagtata gatttagaac atgtntaaat tagtatgtgt aaacatatag 240
gaagacaatt tcgcacaagt acctcacctg gggatcacgt gcataaccaa acatctctct 300
tattaacttg gcaatttctc caatgtactt gtaattatg ccactgggta aaacaaacta 360

<210> 111
<211> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20017

tattacttnt agaccaaaata gaaactatat tctcatgtaa tttatagaat gactntatng 160
aaaagatgct tataatgtga tcgtattang ataaagatgt attcangtca ttggctaaaa 120
tatttataca taggttaaaa tgtaattctg atttctttat ttttataaat ccactgatttt 180
agtttccatc ttttaaaatt gagatattta gtctttcaat tttctaagat tottaatttt 240
ggtcaattca ttcatttgag atgggtaatt gtttaattgat taacgttgat catttatctg 300
gttttttatt ctcatTTTTT tattaccgag taaaagaatt ttataaaaaa aatatttgac 360
gatattgggc cncgtgtctac ctggtgagaa tcccaaagct gcccaaatat anggatctat 420
g 421

<210> 20018
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20018

atgaattgag ttttggttca tgtgtctctc acctcagagt tcggagctat gcgtagtgat 160
tgcttagtgc aattctccat tctcaaacct tttcggagcc ccactgaatta tgtnttcggt 120
catgtgtctc ccactcttga gttaggagct atgcgtagtg atttgcttag gcaattctcc 180
attctcaacc ttttccggag ccactg 206

<210> 20019
<211> 423

<212>	DNA
<213>	Glycine max

[illegible]

```
<210>      20020
<211>      431
<212>      DNA
<213>      Glycine max
```

agtttcaact	tcagaccatt	tencaggtgc	tggaactact	tcacatggac	ttgatggggg	60
ctatgcaagt	tgaagaacct	ggaggaaaga	ggatatgcta	tgttgtgtg	gatgatttct	120
ccagatctac	ctgtgtcaac	tttatcagag	agaaatcata	cacctttgaa	gtattcaagg	180
agttgagcct	aagacttcaa	agagaataag	actgtgtcat	caagagaatc	atgagtgacc	240
atggcacaga	gtttgaagac	tgcacgtnta	ctgaattctg	cacatctgaa	ggcatcactc	300
atgagttctc	tgcagccatt	acaccacaac	agaatggcat	agttgagacg	acaaacatga	360
ctttgcaaga	agttgctatg	gtcatgtctc	atgccaaaga	acttccttat	aatctctgtg	420
ctgaagccatc						431

0210:	10021
0211:	449
0212:	RNA
0213:	Glycine max

<400> 20021

ntacacattg tgttngtat tattgattcc tacgattgtt aattattact tcnatncnna 60
octtaaatga ttactttcac gaattntgat tatattcttg agaaaatttt cctagaaaatg 120
tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt
actttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt tcttcttctt 420
ataaatcttc aaatcaataa atttctaac 449

<210> 20022

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20022

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acgagacatc ttgccaaaca aagtcagggt agcgataact cgcattgtgt ttttcttcca 120
tgcctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggcccc 180
aattatactg taccagttgg agatgtattt tccctgcttt ctttgacatc atgattcact 240
tgattgcgca tctggtcaga gaaatcaaat gatgtgggtc tgtttatcta cgggtggatgt 300
acccggttga gtgatacatg aagatcttaa cagggtatac aaagaatcta tctcgtccag 360
tgcctcttat tgttgagagg tacattgcaa aggaaagcca ttgattttgt tc 412

<210> 20023

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20023

actcaagctt tgcattggtt ctgaaatgta atgatgtcat tatttcttctt agatttaatt 60
ttaatatctg agatgggggt acatatctaa agatcagttg agttaaggtt attttcttaa 120

catatgcaac tetgaactttt atacttttctt tgggtcttcc aaatacagtg ttcattgtgt 420
gaabccgtga tataacctgt cacc 444

<210> 20026

agcttngtt cagatattct tctgggann ggcattctc gtcccttgtc gcattgattgc 60
cctaatccaa taactctgtcc actggattat gtgcttcttt tggacaattt gtggacccaa 120
caacccgtgtt gttgtgtgtc atgacccaaat tgcacagaact gtacagtctc aagatggcag 180
aggaatcatt tattgggttg ccaccgtttg caaccatac aacatgttgt gaacgattat 240
tcttgaacca aatcccccag taactcttgt ttggaagtc aagattgaag aaaccaagct 300
caaagattcc ccttctggaa accatggtct ttccaaaact tgaggattgg gaactgtgata 360
tggatgatgt gttgtct 377

<210> 20027
<211> 398
<212> DNA
<213> Glycine max

<400> 20027

gacctataga tactcaagct tctgcgcatt tgcgatagtg atgttgccgg agatgtttat 60
gttatattat gtaccacgg attcgtattc cttatgggtg atagtgtttt tacatggagt 120
tctaagaagc aaggcattgt gacactttct acttctgaag ccgagtatgt agctgcaact 180
tcttgccat gtcattgcat ttggctaaca agattgttg aggaacttca cttgttgcatt 240
aacgaaagca cacagatcta tctagataat agatctgcac aagagcttgc caagaatccg 300
gtgttccatg cacgatgtat gcattatagat acaaggtatc atttcattag agatgtcatt 360
accgataaag aactataatt gactcatgtg acaactca 398

<210> 20028
<211> 423
<212> DNA
<213> Glycine max

400 20028

4.3

<J13> Glycine max

<400> 20029

ttgcaaacaa ttccatgtgt catgggaaga ctaaacattt caacatcaag ttctatta 418

(413) Glycine max

4400 20030

tuatatali acucuctca atcadacate adactaaaaa at tatti utcu tttuattitu 60

caacgaccat caacattcaa tttcgagcgt gtcgatatat tacgggaactc aatcagacat 120
 gagagtaaaa agttattgtc gtttgaattt gcaacgacca tcaacattca atttcgagcg 180
 tctcgatata tcttcgggact caatcagaca tccgagttaa aagtta 246

<10> Glycine max

<100> unsure at all n locations
 20031

agctntagtt ctacccttgc agaatttatct aagagctgct tagattgtgg cctcaaccag 60
 tcaatgaaca tatccagctg tatgggctca gagaatccat gagtaggaag ttttcgcagc 120
 aagctacaaa ctctttctag ggtcttactc anagatntat ctgggaactg gtgaaaggaa 180
 gagatgacag cctttccttc tgcagtcttg gactctgaga tatatttctt cagaaaattt 240
 tccacaattt ctatcccaagt cctcaagcta ttacctttga atgaatgtag ccaactcttg 300
 gcttctccag atagtgaaaa tgaaaataag ttgatcctaa caacatcttc tggca 355

<110> 20032
 <111> 351
 <112> DNA
 <113> Glycine max

<123> unsure at all n locations
 <400> 20032

gcattcccta tatgtttctag aatncagtta gtagttttct taaagcatta cacactatat 60
 attgggtaca acaaatatgc aatttgatcc aacgtgtata ccatcttggg tggtaaaagt 120
 aggtaccttc tggagggttg acaagcttcc gggttatgagg agggggcatt tctttcttca 180
 actgtgtcag tatgtctctc atggtgtact ctctttgcca atttgcaaga agaccaaatt 240
 tctttgggttc aacctatttc attcaagttt ataaatcttg tcaaaaagat aattagttat 300
 taagccaata aaatagacta aattgtctca taatcatata catgagaagt g 351

<110> 20033
 <111> 455
 <112> DNA
 <113> Glycine max

agaaactttg aatttctgtt ggagttgtcg gttgttgcca ctctttaacc gactccactt 180
 taattggatc cacagcaacc ccattcttag aatcacgtg ccctaagaac tgcactttct 240
 ctacccaata ttacatttc gacatttgg cgaacaattt cctatccctc angatatgca 300

<210> 2136
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20036

catccaatac cctgatgagg atgtcccata tgttcttatt attattattg gtccattngc 60
 ttccaaagtg tcatggcctt gcangtgaag acccgacaaa acatctaana gaattccata 120
 ttgtctgctc caccatgana ccaccagatg tccaggagga tcacatattt ctgaaggcct 180
 ttcccttatto tttagaggga gtggcaaaag actggctata ttaccttgct ccaagggtcca 240
 tcacgagctt ggatgacctc aagagagtat tattagaaaa aattttccct acttccagga 300
 ccacagccat cagaaaggat atttcatgca ttatgcaact aagtggagag agcctatatg 360
 aatactgnga gaatatttaa aaactatg 388

<210> 20037
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 20037

gctggctatt ataganagtt cattgaaggg attttctata ttggcattgc ccctaactaa 60
 gtggactcgt aagaargaga agttcttctg gaatgagaag tgtgatcaaa gtttccaaga 120
 gttgaagagg cgtttgacga cagctccagt gttaattttg cccgaccta agagaacatt 180
 cgaagtgtat tgcgatgcaa gcgggcaagg ctgggggtgt gtgttgatgc aagagggag 240
 agtagtgyct tatgtcttgc gtcaattacg tcttcatgaa tntaactatc cgactcatga 300
 ctgggaacha gcagcgttgg tctttgcctt aaagatttgg aggcattatt tgtacggtac 360

ttcgttttgaa gtttcagtga tcacaagagt etc

393

<210> 20038

<211> 426

atctggttgga aaatgattat acattcagtg atctggtt atctatcagc tcaatcggcc 60
agagcatagt gtttttggan aatgtcgtg atgttcggaa tgatttgaac gagagattct 120
ctcaaggaga ccttatcaga atttctgaac ttcaataaga gatatatggc ctcaaggcaag 180
gtctcttctc tgtcaactgaa ttttattctg agttaaaaaat actttgggaa gaactttaaa 240
catatatgog tattccatgt tgttctgtga ccattaaatg cacttggtgt gcaatgagaa 300
atgcacagaca tcttcatact cttaattatg ctataagaat tttgactggt tngaattgaca 360
atttttcagt agtgaaatct cagatcctna ctatggatcc actgcctagt atgaacacaa 420
tttttc 426

<210> 20039

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20039

agcttaaatt tgcggttgta tgacttanag tactaacaga gcattttaga ggggtntnac 60
tntnntnigt ttgaaaaact tacataatta gcataaatat ttttgaaaca atttttaatt 120
aaaaaaaaacg tctttcataa aacacacaaa cagtaggcac taaaaccttc ccaaatgcta 180
agacaacaaa ggctacatta caaacaaggt ccagttctaga gcaacacatt cacttgaago 240
aagtcccaaa gtacctcatt agaacagaag cagcgataaa catgacccga ttggtgtagg 300
ttctccgcct attgtttgta taaagaattc ctctcagaat gcctataatg accataatcc 360
cttccaaacac cangccctaa canattcctc acaacccaca aaaatacaca cttaaccata 420
aacaaaaat 429

acatctatcc tgtgtttcag atattngaac gggtatccg caacaaataa atacgtaaca 60
 agtcaattca agaaattggg agaagagatc ctgtctcaat ttaactagtt catgtcaatt 120
 tgattgctaa ccttcattga agttaacttg ttcaatgctt ccagctacac cataaccctg 180

<209> 20043
 <210> 327
 <211> 101
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20043

tgaagatggt gtgctcanag tctctgyatg atactcttcn tttagacttt ggagtaaacc 60
 ttgggtctaa gatgtggcaa cataagtgtt atcaatctaa caaaaaatcc tatcatgcat 120
 tctacgacta aacacataga aataatgcat cttttcttta gagatcatgt gttaaaaggt 180
 gactgctaca ttgagttcat agatagttag catttaacttg cagacatttt cactanacca 240
 cttgctagag ataggttctt tntcattaca aatgatatag gcatattaga tgcaccaaac 300
 ataaaataac ttcttatttg cataatgtgt gatgcacatn gctatttgag acgatgacta 360
 atttattctg gagtctctac tttaatcaat caccaagtag tttaatcgat taactctctc 420
 tgcctaaagt gtcagaagta acaagacact t 480

<210> 20044
 <211> 327
 <212> DNA
 <213> Glycine max
 <400> 20044

tttcttcact tatgtttgta tggtatgaaa caagcaccta ggcagtggta caagaagttt 60
 aatgagttta tgagcaactc aagattcaaa agatgtgaca tgggacattg ctgctatgtt 120
 aaaaaatata ctaatagtta tgttatcttt gttgggtatg tggatgacat gttgatgca 180
 ggatctatta tgatagaaat taatatgttg aatcagcagt tggcagaaaa ctttgaaatg 240
 aaggatcttg ctcccgctaa acaaaaatctt ggtatgagaa ttcttacata caatcctaa 300
 tggaaatttg agctgtctga agagaaa 360

<210> 20045
 <211> 449
 <212> DNA
 <213> Glycine max

aggttcaatg tttatggtg ggtttttttt ggtttttttt ggtttttttt
 gttttttt gttttttt gttttttt gttttttt gttttttt gttttttt
 atatgttaac ggactcaatc agacatccga gtaaaaagtt atgggtcggtt gtattggctc 130
 agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240
 agtaaaaagt tatggctggtt tgtattgggt cagagctgca actttcaatt tcaagcgtct 300
 cgatatgtta cgggactcaa tcagacatcc gagaaaaaat tattgtcggtt tgattggctc 360
 agagcttcaa attcaatttc gtgcgtctcg atatgttaac ggactcaatc agacatccga 420
 gattaaaagt attgtcggtt gaactgctc 449

<210> 20046
 <211> 157
 <212> DNA
 <213> Glycine max

<400> 20046
 ttcttcctta ttatgagcac ctaacggact actgggagaa agtatgacca tctgaatctc 60
 ccgagagctt ccattgatca attttaagct tctaaatata ttatgcacct gaatgatact 120
 tgagactgaa aagttatgac ccttgaatt tctcgag 157

<210> 20047
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20047
 tagctngtat cttatgcaaa cggcaataac gttgtactcg gatgttcgat ttggtcacgt 60
 aatacatcga aacgtctgaa attgacaaca gaaactctgt gcatattcaa acgacaatac 120
 attttaactc cgaatgcaga ttgagtcctg taatatatca agacactcga aattgaaat 180

aatagctctg aacaaattcg aacgacaata actttttact cggatgtccg agtgagtcca 240
gtaatatatc tagacactcg aaattgagaa tagaagagct gagcaaattc aaacgactat 300
aatttggtag tagatatttc tagggagtcg caacggtctc gatataattc 360

<223> unsure at all n locations
<400> 20048

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cactctatga agctgagtat attgcagcct cagaagctgc atgccaagca gtgtggctag 120
atgcccogat gaagaaattg caactggana aatcatgtaa agtgaagttg ttggtagaca 180
ataaatcttc cattgattta gctaggcacc cyacttctca tggagaagt aaacacatag 240
aaacaaagtt ccacttctca agaatgtcag caatgagaaa ctgaagattg acattgcaga 300
actgaaatto agcttgaaac atactcacta agaatttgaa gctagaaatg tntagatgtt 360
taagagatto cattggaatt 380

<210> 20049
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20049

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aactttgggc atattctttg aaagattcat gccctctctt gcattatgctc tgtagttgca 180
tcctatccgg agccatatca gaattgtacc gatactgctt aacgaaggca ccatttaggt 240
ccttccaaga atggactcan gaaggttcca agttagtata ccangtgaca actgccccag 300
taagaatttc ttgggagaaa tgtatcagca gtgtctcacc ttttggctat agccccacc 360
ttctgacaat acatcttttag atggttcttg gagcaagtag tcccttngta ctcttcaaat 420
ttcagcaccr tgaacttg 438

attcctgata attcggatcc tgagactgtc ctcaaaactat ctacaaatcc tctgcatggg 60
 aactgagagg ttgtctaata naagttgctg ctctgaacta cctttccatc tgacaggcag 120
 aaagaattcc aatatgtaat catcatcatt agtataagta ctcccttagcc taattgcaac 180

<211> 10
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 20053

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 caacacactg gagcaattga gcagcccgaa gcttatgtg caaatattta caatagacct 180
 cctcaacctc agcagcaaaa tcaaccacag cagaacaatt atgaactctc cagcaacaga 240
 tacaacactg gatggaggaa tcacctaat ctccagatgg ctagccctca gcaacaacaa 300
 tagcagcctg ctcctttcta tccaaatgtt gttggcccaa gcagaccgta cattctctca 360
 ccantccaac aacagc 376

<210> 20054
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 20054

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 ctctcagagag attggaatgg tcataactct tcacacccgat gtccgaatcg ggcccataat 120
 atgtctagac gctctaaatt gatcaacgga agctctcgat aaattataat gggcataact 180
 tttaactcgg a 191

<210> 20055
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 20055

tgatgacagc ttcccatcat ctgctataca gtgattagat gaacgccacc atacttgcgc 60

taactcttc taatgggat caatccgaaa caggaagctc attcattgta cctccctctt 120

<210> 10055

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20056

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atggaatacc gaagctctga gcaaattcaa acgacaataa ctntntactc ggatgtctga 120

ttgagtcccg taatatatcg aaaagctcga atgtgaatgt agaagctctg agcaaattca 180

aacgacaata actttttact cggatgtctg attgagtcgc gtaatatatc gagacgctcg 240

aaatggaata ccgaagctct gagcaaattc anactacaat aactttttac tcggatgtcc 300

gattgagtcg cgtaatatat tcgagacgct cgaaattgaa tgcgaagct ctgagcaaat 360

tctaacgaca ataacttntt actcggatgt ctgattgagt ccgcaatata 420

<210> 10057

<211> 151

<212> DNA

<213> Glycine max

<400> 10057

tgcaacactt atatgacgtg gtgcagctt ttctcttcta tagaataatt atgaccttgg 60

cggcagtaga tacaattcag gtggaggaa tcattccaat ctgagataga caagtcctcc 120

acaacaacat cagcctgtcc ctctcttcca aaatgctact ggtccaagca agccatatgt 180

tcctctctca atgcaacaac aacagtagca gtcacaacat agacaacaag caactgaggc 240

tcctctctcaa c 251

<210> 10058

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<223>      unsure at all n locations
: 2:      10152

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[illegible]

8.10 - 20059
 8.11 - 492
 8.12 - DNA
 8.13 - trycine max

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acaatatgct	agatggcaca	ccatgtaatc	tgacaatctc	actaatgcac	agggagggtca	120
acttctctaa	ggaaagccta	atattgatgg	ggataaagtg	tgcaattttg	gtcaatcttt	180
caacaaacac	ccaaatagaa	tcaaaacctt	tgtggtcctg	ggtagtctta	caacgaaatc	240
catggagata	ctatcccact	tccacttggg	tatctctaaa	ggttgtaact	tacttgaagg	300
tttgtgatat	tctatcttag	ccttttggta	gactagacac	gcatacacaa	acttgctacc	360
tctctcttat	gttggggccc	aaaacattac	gt			392

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<210>      10960
<211>      173
<212>      DNA
<213>      Glycine max

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*2230*      insure at all n locations
*4030*      20060

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ctccgtatat tacgggactc aatcagacat ccgagtaaaa agttttgtgt ttgaattggc 120
tcgagaacctc aacattcaat ttccagagcctc tcgatatatt aacggagcca atcagacatc 180

cgagtaaaaaa gttattgtcg ttgaatttg ctcagagcat cgacattgaa ttgcgagcgt 240
 ctogatatat taacggactc aatcagacat ccgagtaa 278

<210> 20061

<211> 173

<212> DNA

<213> Glycine max

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 aggttgagat aacataaaac tcttgatttc atattatttt atggttatgc aggatattat 180
 aagaactgcca atgctattta tctntcttca taagccattg gcccaatttc gatctgtttt 240
 aaaagcccta agagcacaaa ggcttgcttc aatcgttgtt ggatctcttt agaataaac 300
 tgaacacatg cactgctctt ccaaaaactta ttgcataca tcaactacaga catatatttc 360
 ac 362

<210> 20062

<211> 351

<212> DNA

<213> Glycine max

<400> 20062

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 cgacaagcta gctcgatctc gataactcag acatgacaat agctgaatta ctgtatcctc 180
 aggcataaac ttccaatcaa caaccccttg cttttgagtt gccaaatcca aaacctcctc 240
 ttgaacttca gggagactag actgcaccac attccctatg ctatgtctcg ccagctttcg 300
 tctcactcta tgaatcatgt ctcaacaaaa tcacagcata cccacaccaa c 361

<210> 20063

<211> 173

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20063

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attgaacaat ggaagctctt gagcaattca natgggcata aatagtcact cggaggttcg 120

.....

<210>
<211>
<212>
<213> Glycine max

<223> unsure at all n locations

<400> 20064

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gttttggttt ttgcattga acaattcata tggagcttcc ttataatgg gtcttattaa 180

agccctatct aaatgtaaca tgcagtggta acagcttcaa ccttggcata cctaatttc 240

gtccggggac ctttgcttga tg 262

<210> 20065
<211> 320
<212> DNA
<213> Glycine max

<400> 20065

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tctccatata ttacgggact cattcagaca tccgagtaaa aagttattgt agtttgaatt 120

agcttagagc ttcaacaatc aatttcgagt gtctcgttat atcagagac tcaatcagac 180

atccgagtaa aaagttattg tcgtttgaat tggctcagag ctccacatt caatttcgag 240

cgtgtcgata tattacgggc gtcaatcaga catccgagta aaaagttatt gtcgtttgaa 300

ttcgtcaga gcttcaacat 320

<210> 20066
<211> 300
<212> DNA
<213> Glycine max

<400> 20066

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 cttbaaaatg ttgttgggtc agcacacatt acgttctctc actaatccac caacaacaac 120
 tttatagatg ttgtgaagaa ttaattatag atgtctcttc tcaacatttc ttgtgaagac 180

<210> 20067
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 20067
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 ttttagagtgc ccttcaaaaag tttctctctgc tacaagatggc aatcaatttc caagtgtttt 180
 gtgcgttcgt gataaaccgg atttgaggca atgtggactg cgttttgggt gtcacagtaa 240
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 aactcacaag cagctgaaaa cagagccctg tactctgctt ctgaagatga tctggacaca 360
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<210> 20068
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 20068
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 aatcagacat ccgagttaat agttattgct gtttgaattt gctgagagct tcagcattca 180
 atttcgagcg tctcgatatt ttacgggaat caatcaaaaca tccgagctta aagttattgt 240
 tgttgggaatt tgcgagagc ttcaacatc aatttcgagc gttctgatat tttacgggac 300
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caatctgtac acattctcac gtaccatcct ttgtgggcac caacaacact ggcacaaca 299

<210> 20072

<211> 401

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<210> 20073

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20073

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ccactctgt cgtcatggcg agactcaaga aggccaacag gntagcctt ttcaatgtac 180
ctctanacaaa attcaatggc ttcttctgca atgtaccttt caacaataga tgcttctgga 240
caatgtagat tcttggtata cctttttaag atcttcatgt atcgtcaac cgaatcac 300
caccataaat aaacaggacc acaacatttg atttctctga ctatgtaac aatgaagtga 360
atcatgatgt ca 372

<210> 20074

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 20074

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<210> 20075
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20075

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gtgtatttgc ttattgccgc atgtcattca gcctatgtaa tgcencaact actttccaga 240
gatgtatgat ggcaattttt gctgacatga tagagacatg tattcaagta tgtatggatg 300
attttctctt ttg 314

<210> 20076
<211> 193
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 20076

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tggtttaaga ttcataggat attgtacott aattgttgag ttcttcacga ccaagggtca 180

gtctgattaa tggaactgaa aagtcttcac gaggaagaa taagaatatt acagcagttg 240

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<11> 20077
<111> 363
<112> DNA
<113> Glycine max

<400> 20077

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gccttacatt cttgatgact ctctcaaac catcatgaag cttaaacctc acagacccaa 300

ctcaagtgat cttacaggac ttgttgattc caagtaggat tgaaccacca acttgttcat 360

ca 362

<110> 20078
<111> 377
<112> DNA
<113> Glycine max

<123> unsure at all n locations

<400> 20078

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tgaagaacgc aaagtcttag tgcattgaaa agatatcaag gaaaggtgga atgtgtatct 180

ccacaactta tgaatgatg gatatggata tgaactctagc agtctagaca caagagaaga 240

ggaccggaac cataagtaact atcgtcggat tcagaaacag gaagtaaagg aagcgttgaa 300

tagaatgagt aatggttaagg cggctggggc agacaacata cctattgaag tctggaaaac 360

tctaggagat agagtc 377

gggggataa ggaagggta gttatattt gaaagggaaa ttaaggtgat gaagggggtt	10
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gagatgctgt tcccaaatagg gtcaccaatt gatattcttt cttgcataaa ggtaaaaatgg	240
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aaagagaaaa agaaaagata ttcaaagtaa gaaaaagtc tttgagagag aataaccaca	360
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<400> 20030

[illegible]

<400> 20081

(X)

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<23> unsure at all 4 locations
<40> 26982

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aaggaagata ctaatctctaa gacttatggg ttcctttcag aaaagcctt aaaagggtgg 360
atagagaccc attcactacc tttgtttgcc catcaattta tggatgacaa gtggttag 417